

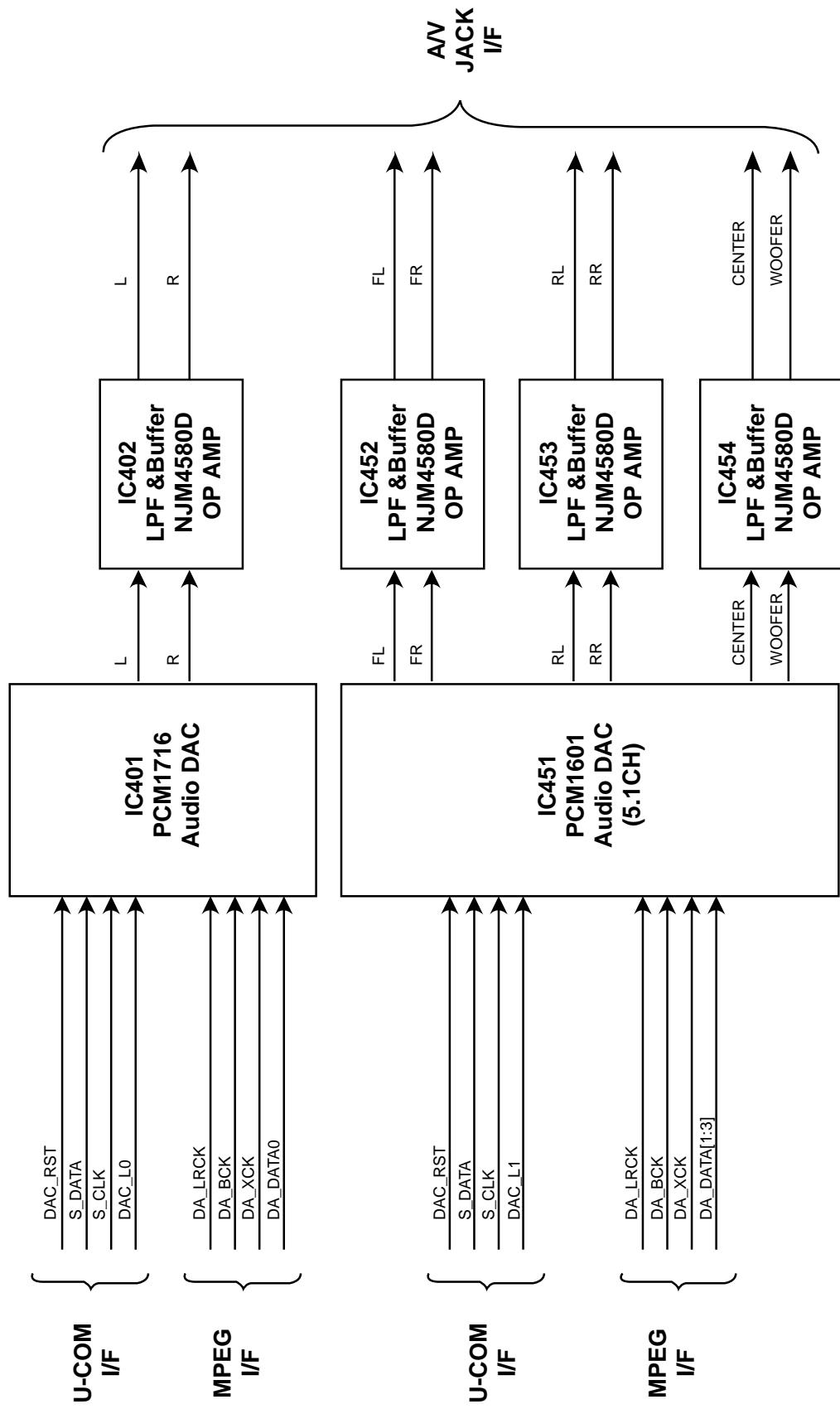
LG

DVD-4730

MODEL

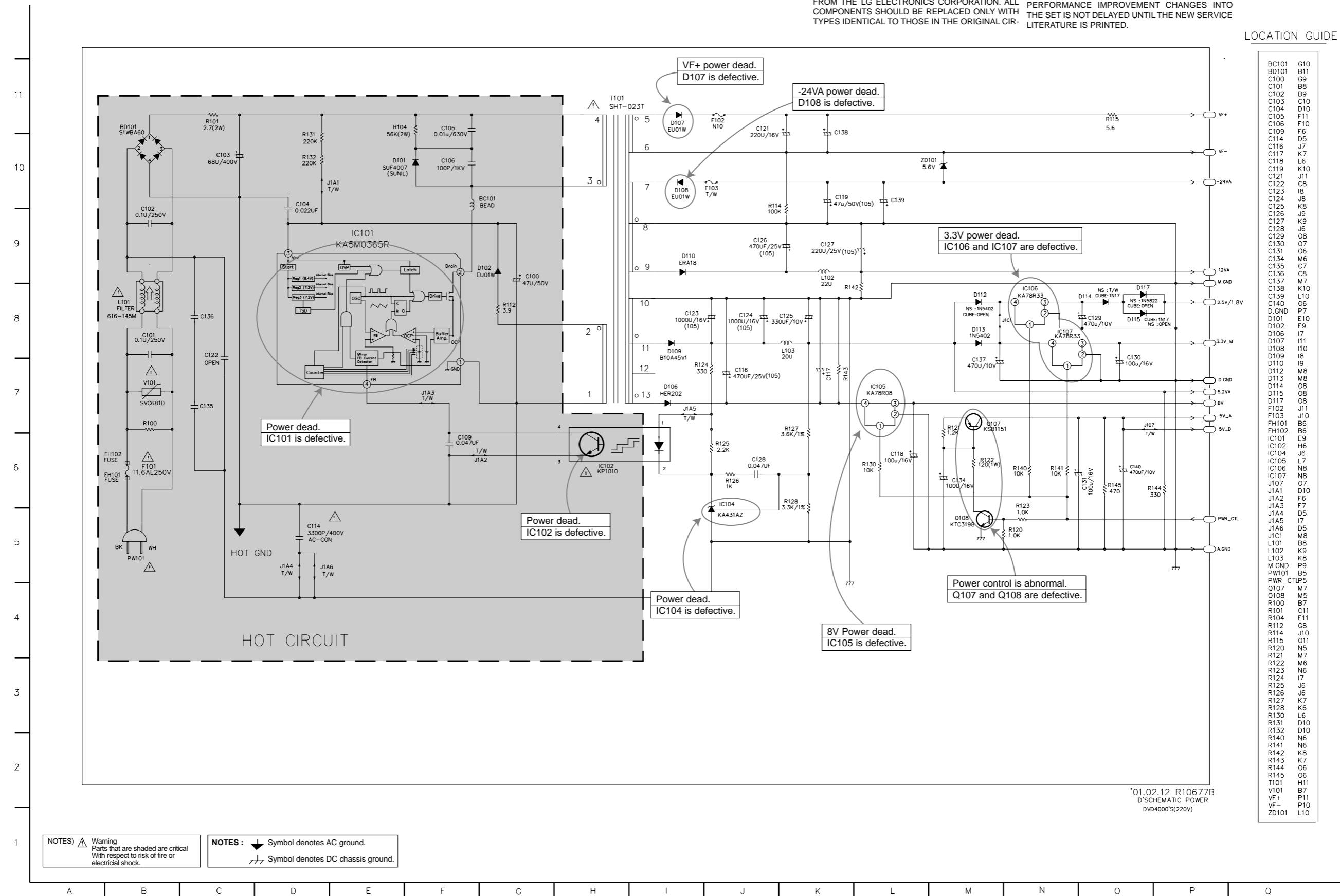
SERVICE MANUAL

4. Audio Block Diagram

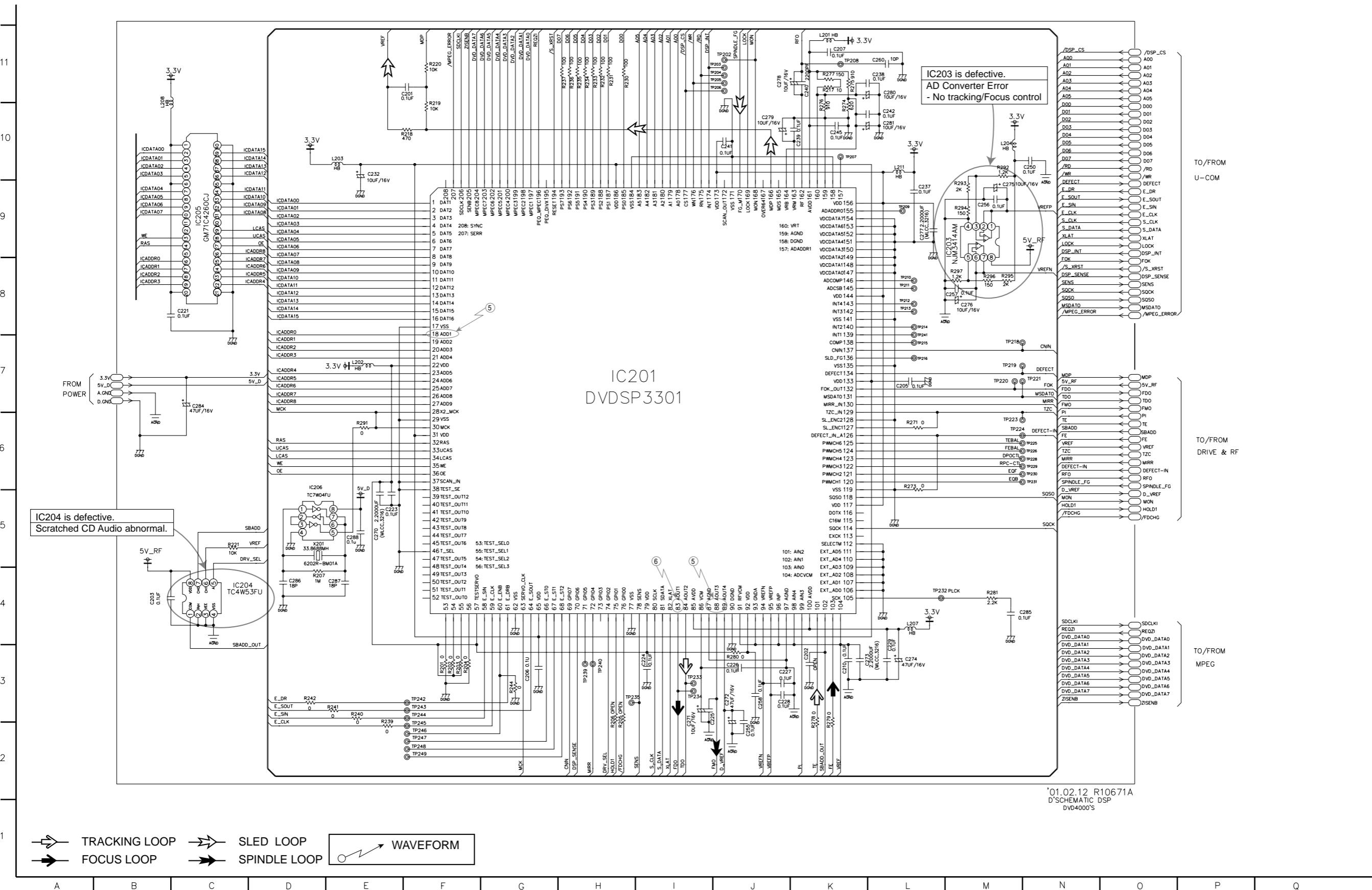


CIRCUIT DIAGRAM

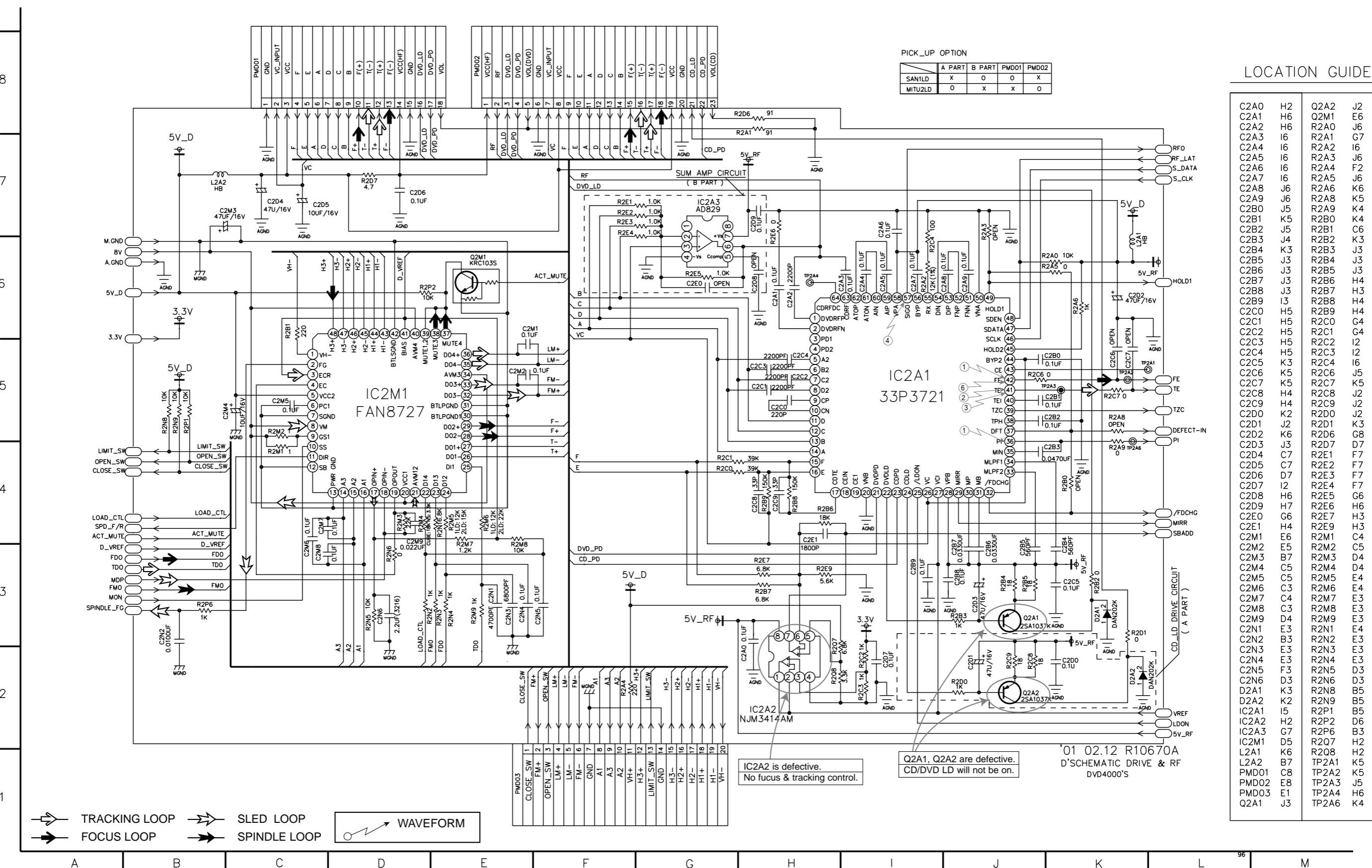
1. POWER(SMPS) CIRCUIT DIAGRAM



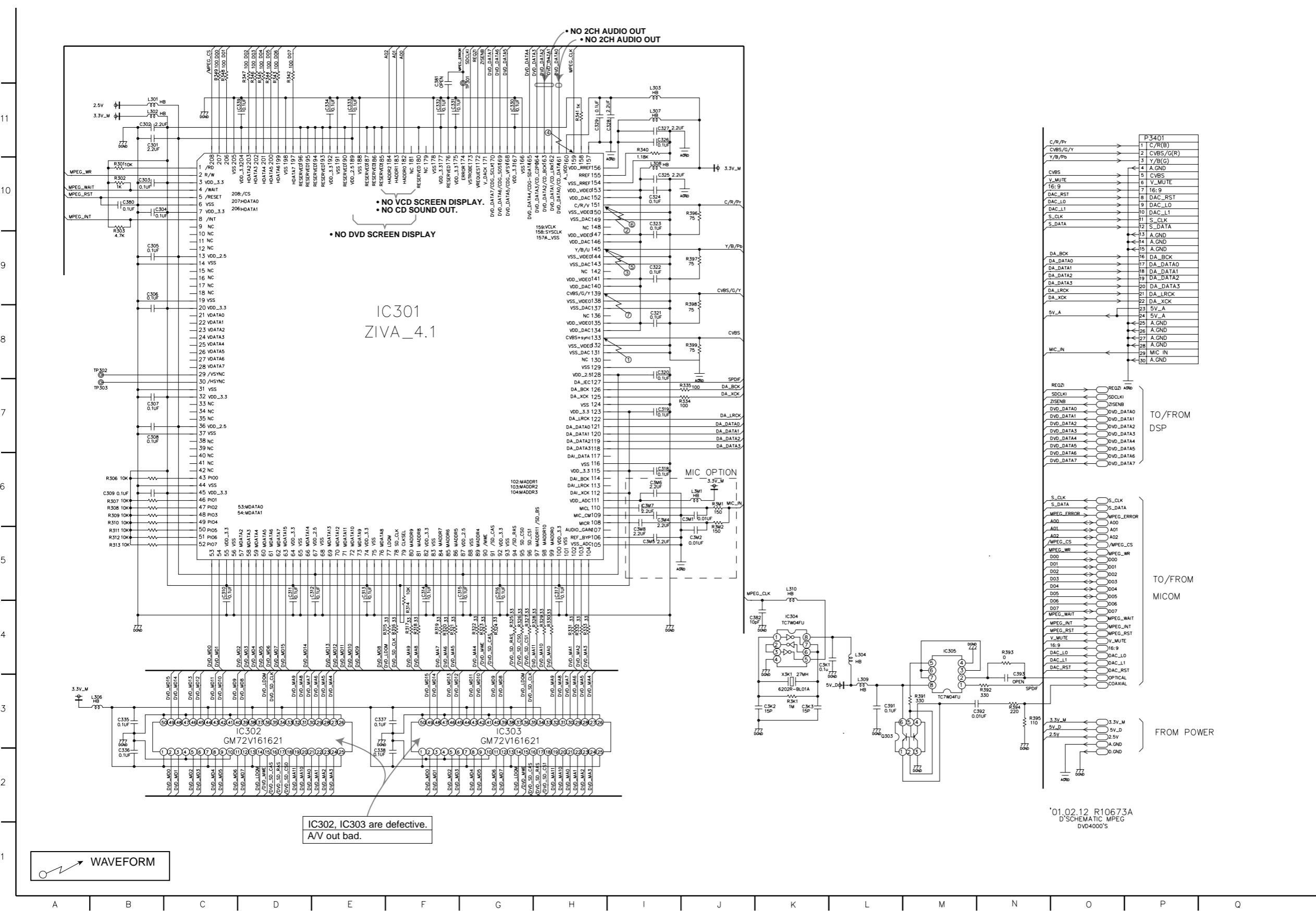
2. DVD DSP CIRCUIT DIAGRAM



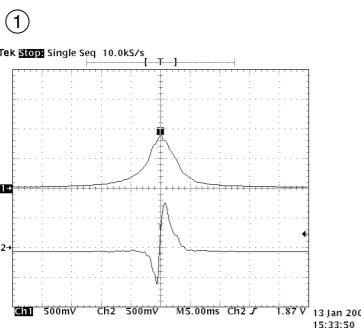
3. DRIVE & RF CIRCUIT DIAGRAM



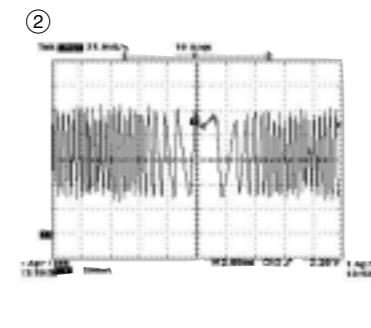
4. MPEG CIRCUIT DIAGRAM



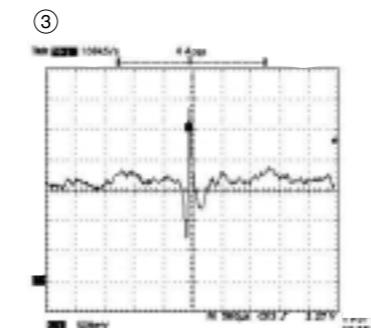
• WAVEFORMS



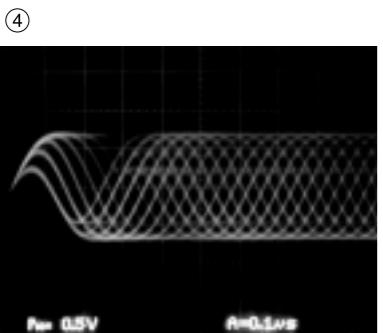
IC2A1 Pin 42, Focus Error
IC2A1 Pin 36, Pi



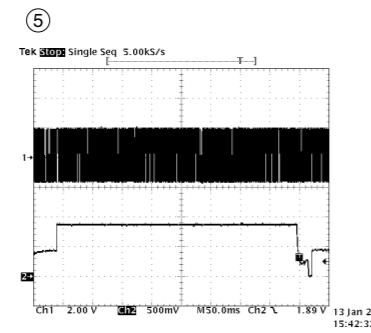
IC2A1 Pin 41
Tracking Error



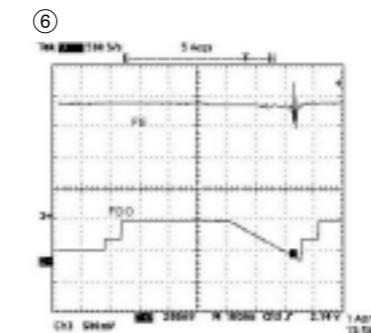
IC2A1 Pin 41
VBR TRACKING Error



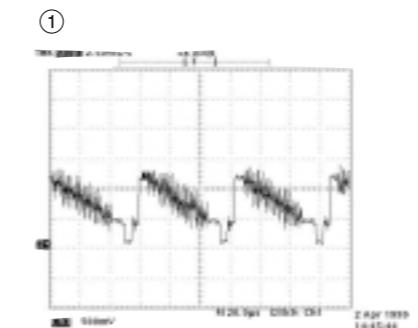
IC2A1 Pin 57,
RF



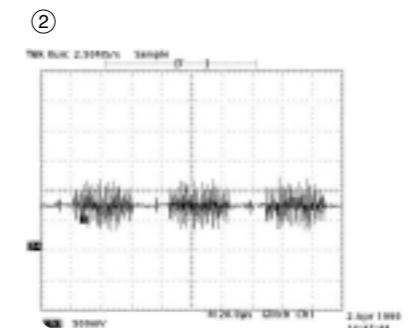
IC201 Pin 88, SLED Drive(FMO)
IC201 Pin 18, SLED FG



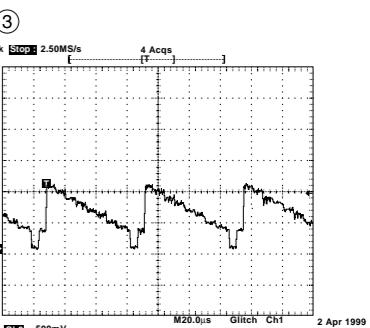
IC2A1 Pin 42, Focus Error(in Focus Search)
IC201 Pin 83, Focus Drive(FDO)



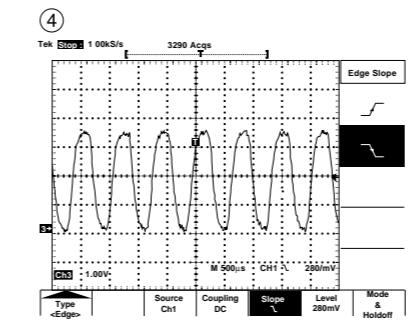
IC301 Pin 133, Composite



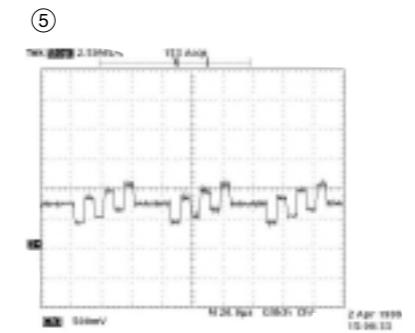
IC301 Pin 151, Chrominance
(Super video out Mode)



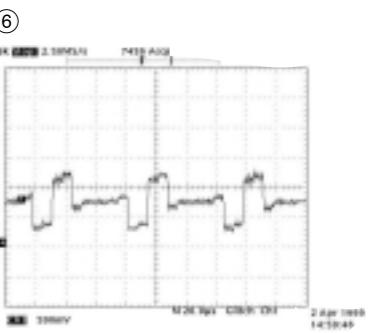
IC301 Pin 145, Luminance
(Super video out Mode)



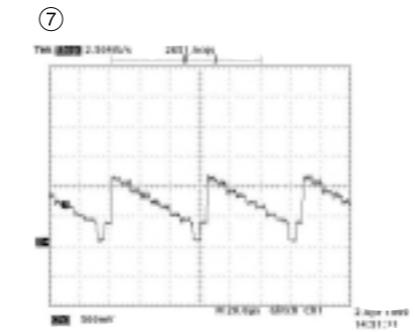
IC301 Pin 159,
MPEG Clock(27MHz)



IC301 Pin 145
Component Pb

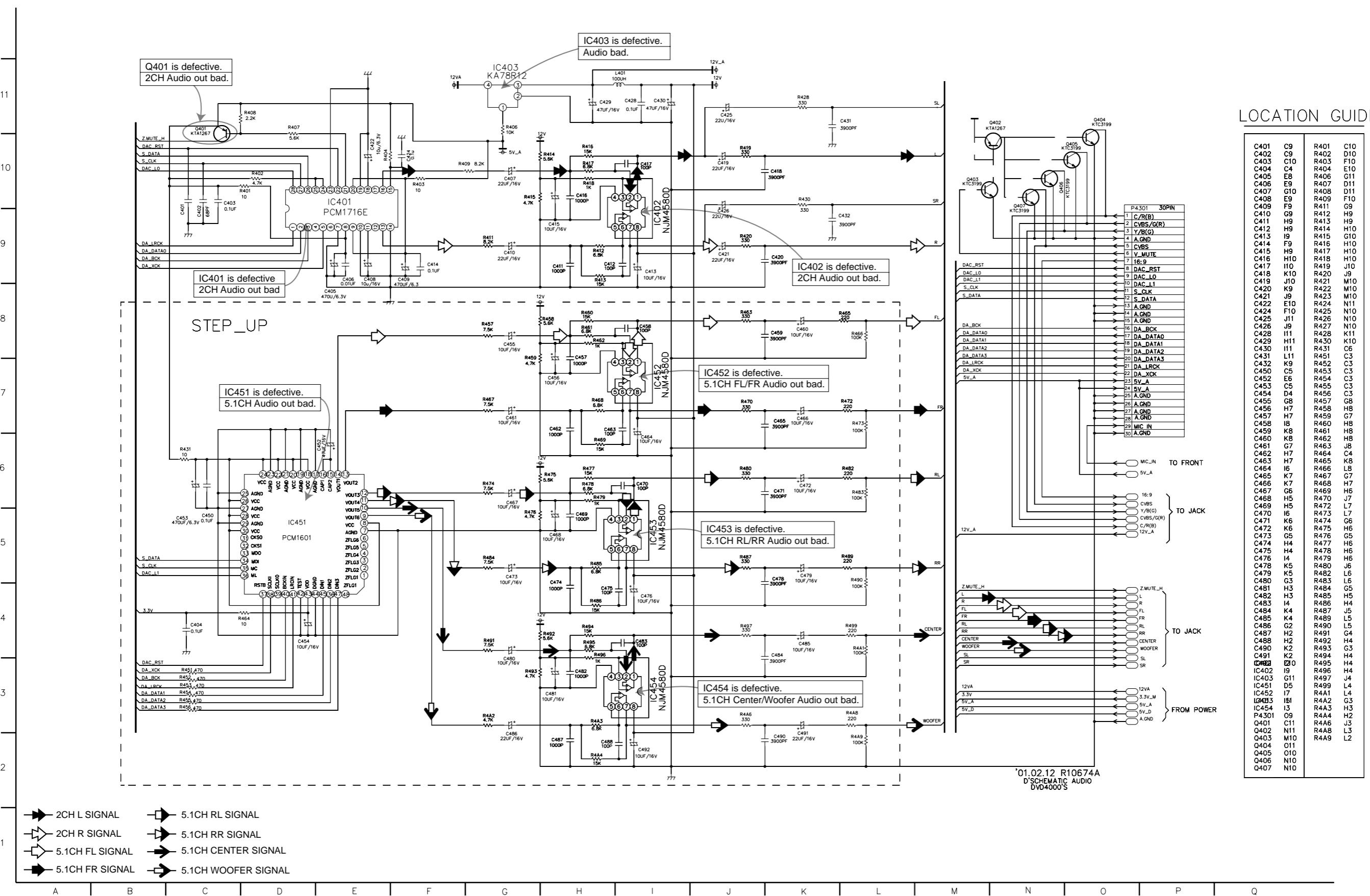


IC301 Pin 151
Component Pr



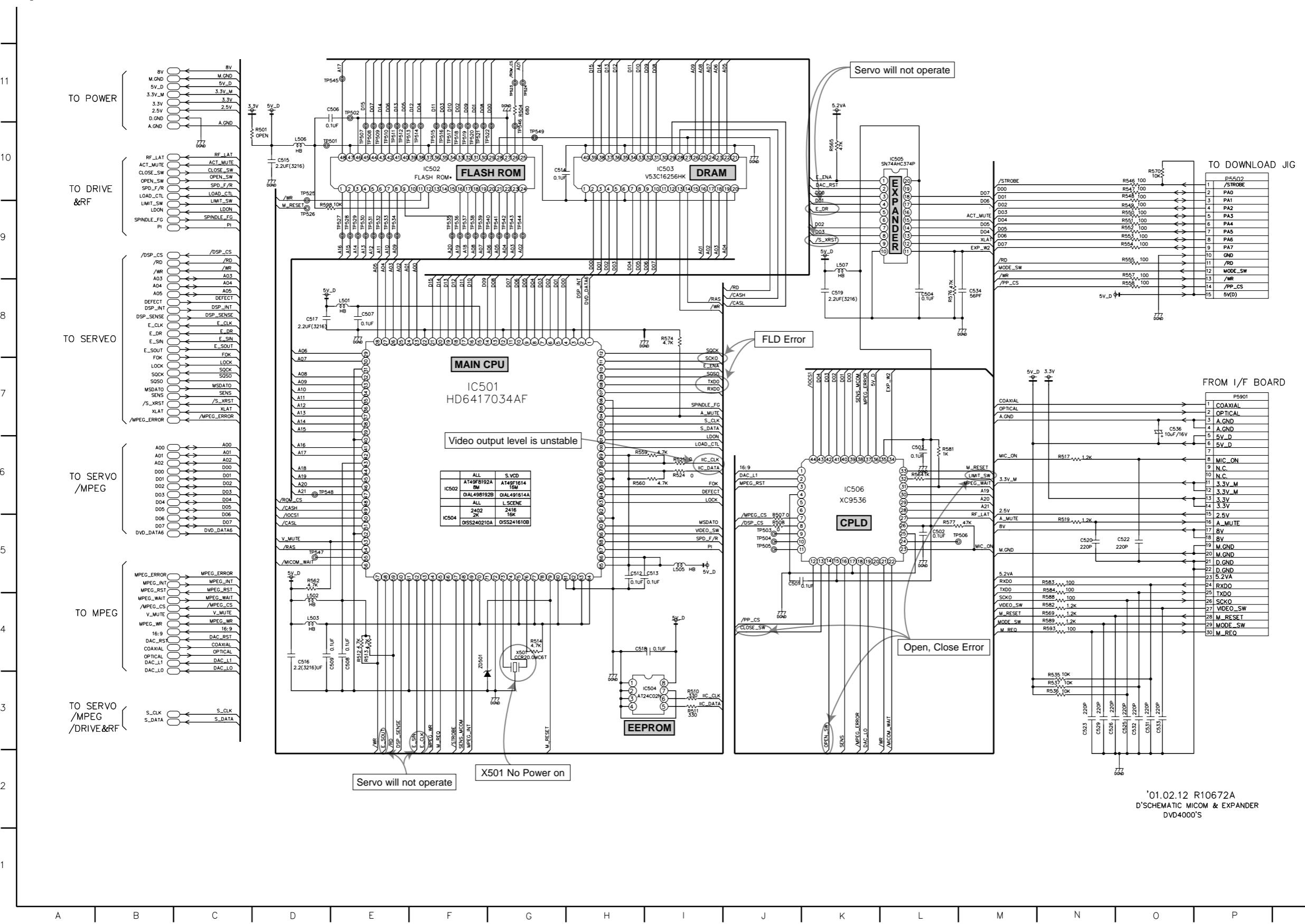
IC301 Pin 139
Component Y

5. AUDIO DM & 5.1CH CIRCUIT DIAGRAM



'01.02.12 R1067
D'SCHEMATIC AUDIO
DVD4000'S

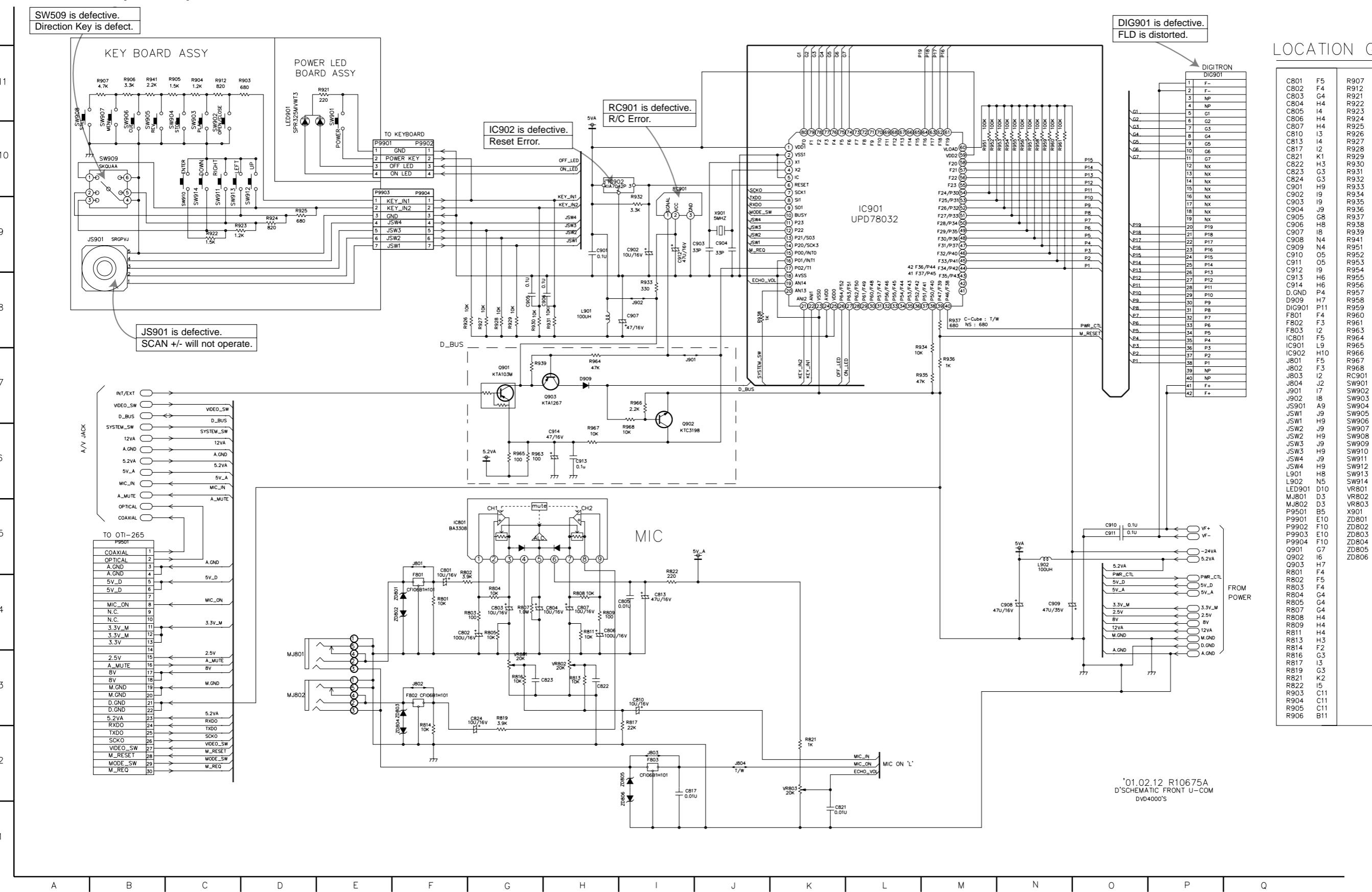
6. μ -COM/EXPANDER CIRCUIT DIAGRAM



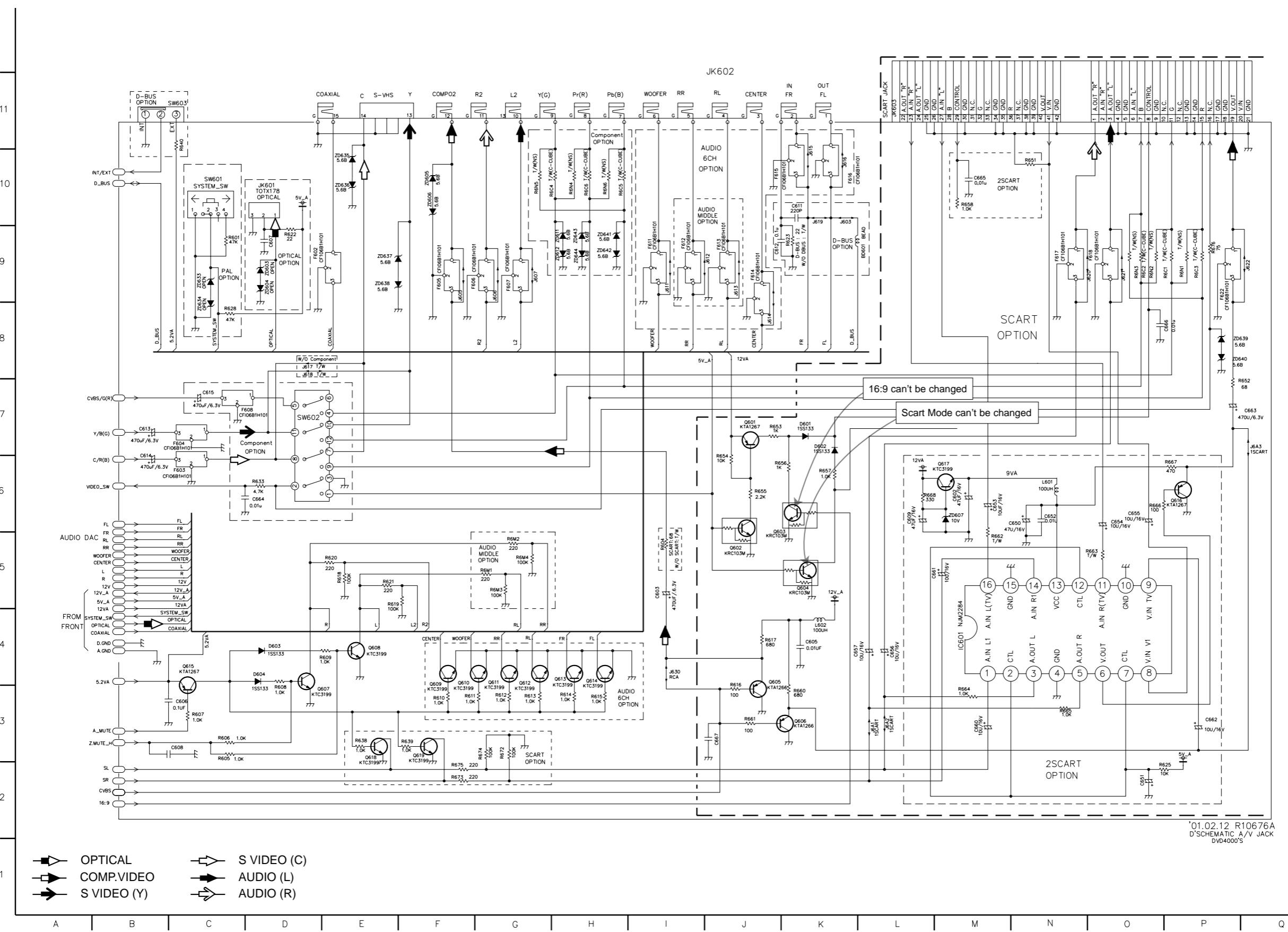
| LOCATION GUIDE | | | |
|----------------|-----|-------|-----|
| 5V_D | D11 | R555 | 09 |
| | D8 | R557 | 09 |
| 5V_D | D5 | R558 | 08 |
| 5V_D | I4 | R559 | H6 |
| 5V_D | I5 | R560 | H6 |
| 680D | I9 | R562 | D5 |
| C502 | L5 | R564 | L6 |
| C503 | L6 | R565 | K10 |
| C504 | L8 | R569 | N4 |
| C506 | D11 | R570 | O10 |
| C507 | E8 | R574 | I8 |
| C508 | E4 | R576 | L8 |
| C509 | E4 | R577 | L5 |
| C512 | H5 | R581 | L6 |
| C513 | I5 | R582 | N4 |
| C514 | G10 | R583 | N5 |
| C515 | D10 | R584 | N5 |
| C516 | D4 | R588 | N4 |
| C517 | D8 | R589 | N4 |
| C518 | H4 | R593 | N4 |
| C519 | K8 | R598 | D9 |
| C520 | N5 | TP501 | D10 |
| C522 | O5 | TP502 | E11 |
| C523 | N3 | TP503 | J5 |
| C525 | O3 | TP504 | J5 |
| C526 | N3 | TP505 | J5 |
| C529 | N3 | TP506 | L5 |
| C531 | O3 | TP507 | E10 |
| C532 | O3 | TP508 | E10 |
| C533 | O3 | TP509 | E10 |
| C534 | M8 | TP510 | E10 |
| C536 | O7 | TP511 | E10 |
| D.GND | B11 | TP512 | E10 |
| IC501 | F7 | TP513 | F10 |
| IC502 | F10 | TP514 | F10 |
| IC503 | I10 | TP515 | F10 |
| IC504 | H3 | TP516 | F10 |
| IC505 | L10 | TP517 | F10 |
| IC506 | K6 | TP518 | F10 |
| L501 | E8 | TP519 | F10 |
| L502 | D4 | TP520 | F10 |
| L503 | D4 | TP521 | F10 |
| L505 | I5 | TP522 | G10 |
| L506 | D10 | TP523 | G11 |
| L507 | K9 | TP524 | G11 |
| P5502 | P10 | TP525 | D10 |
| P5901 | P7 | TP526 | D9 |
| R501 | D10 | TP527 | E9 |
| R504 | G11 | TP528 | E9 |
| R507 | J5 | TP529 | E9 |
| R508 | J5 | TP530 | E9 |
| R510 | I3 | TP531 | E9 |
| R511 | I3 | TP532 | E9 |
| R512 | E4 | TP533 | E9 |
| R513 | E4 | TP534 | E9 |
| R514 | G4 | TP535 | F9 |
| R517 | N6 | TP536 | F9 |
| R519 | N5 | TP537 | F9 |
| R524 | I6 | TP538 | F9 |
| R525 | I6 | TP539 | F9 |
| R535 | N3 | TP540 | G9 |
| R536 | N3 | TP541 | G9 |
| R537 | N3 | TP542 | G9 |
| R546 | O10 | TP543 | G9 |
| R547 | O10 | TP544 | G9 |
| R548 | O10 | TP545 | D11 |
| R549 | O9 | TP546 | G10 |
| R550 | O9 | TP547 | D5 |
| R551 | O9 | TP548 | D6 |
| R552 | O9 | TP549 | G10 |
| R553 | O9 | ZD501 | F4 |
| R554 | O9 | | |

'01.02.12 R10672A
D'SCHEMATIC MICOM & EXPANDER
DVD4000'S

7. DIGITRON(TIMER) & KEY CIRCUIT DIAGRAM



8. JACK CIRCUIT DIAGRAM

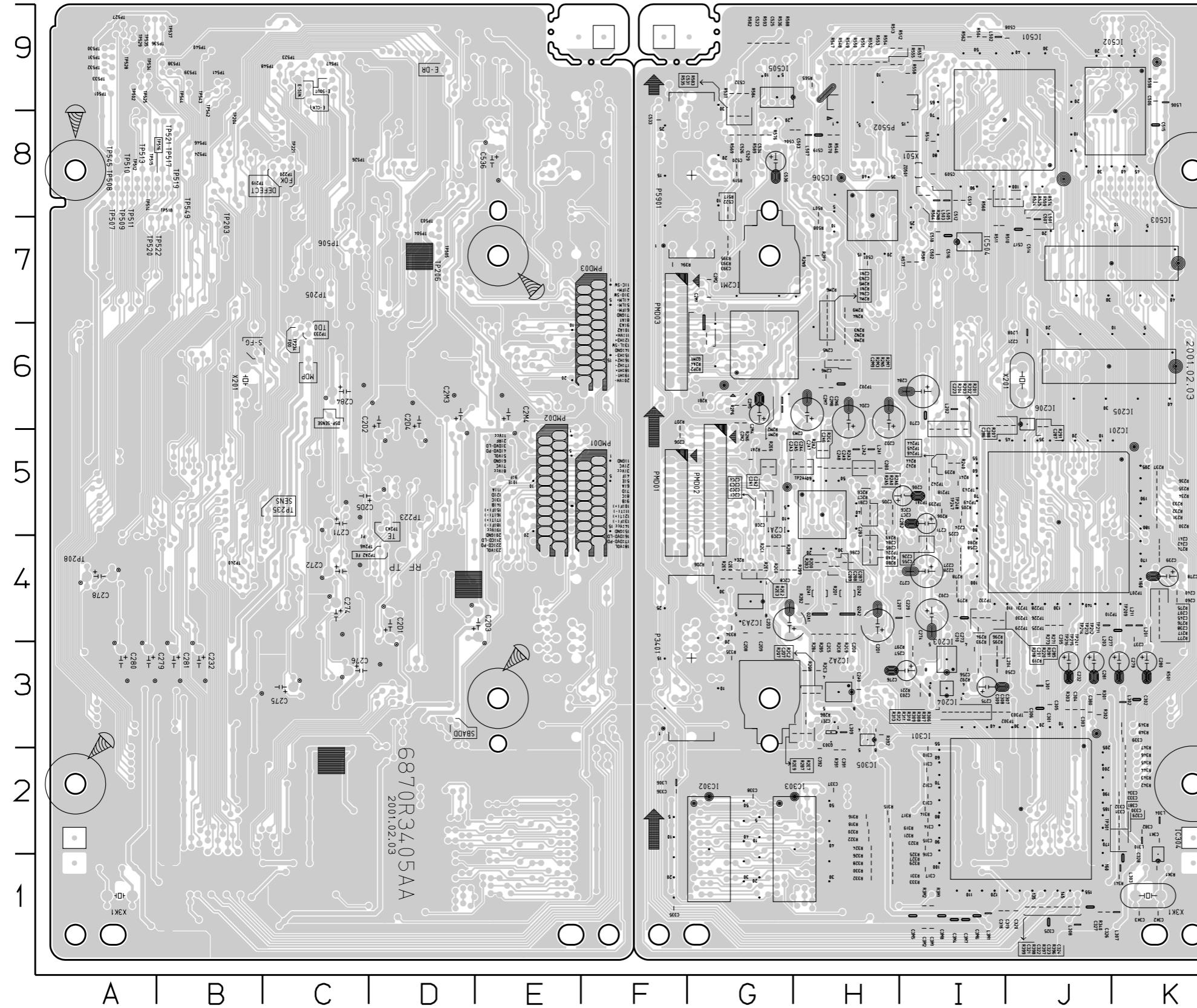


LOCATION GUIDE

| | | | |
|-------|-----|------|-----|
| BD601 | L9 | R601 | C9 |
| C602 | M6 | R604 | I5 |
| C603 | I5 | R605 | C3 |
| C605 | K4 | R606 | C3 |
| C606 | C3 | R607 | C3 |
| C607 | D9 | R608 | D3 |
| C608 | C3 | R609 | D4 |
| C609 | L6 | R610 | F3 |
| C611 | K10 | R611 | F3 |
| C612 | J9 | R612 | G3 |
| C613 | B7 | R613 | G3 |
| C614 | B6 | R614 | H3 |
| C615 | C7 | R615 | H3 |
| C650 | M6 | R616 | J3 |
| C651 | O2 | R617 | J4 |
| C652 | N6 | R618 | E5 |
| C653 | M6 | R619 | E5 |
| C654 | O6 | R620 | E5 |
| C655 | O6 | R621 | E5 |
| C656 | L4 | R622 | D9 |
| C657 | K4 | R623 | K9 |
| C660 | M3 | R625 | O2 |
| C661 | M5 | R628 | C8 |
| C662 | P3 | R633 | D6 |
| C663 | Q7 | R638 | E3 |
| C664 | D6 | R639 | F3 |
| C665 | M10 | R640 | C10 |
| C666 | P8 | R651 | N10 |
| D667 | K7 | R652 | P7 |
| D602 | K7 | R653 | J7 |
| D603 | D4 | R654 | J6 |
| D604 | D4 | R655 | J6 |
| F602 | D9 | R656 | M6 |
| F603 | C6 | R657 | K6 |
| F604 | C7 | R658 | M10 |
| F605 | F9 | R659 | K3 |
| F606 | G9 | R660 | K3 |
| F607 | G9 | R661 | J3 |
| F608 | C7 | R662 | M5 |
| F611 | I9 | R663 | N5 |
| F612 | I9 | R664 | M3 |
| F613 | I9 | R665 | N3 |
| F614 | J9 | R666 | O6 |
| F615 | J9 | R667 | P6 |
| F616 | K10 | R668 | L6 |
| F617 | N9 | R669 | G3 |
| F618 | O9 | R670 | F2 |
| F622 | P9 | R671 | F2 |
| IC601 | M4 | R675 | P9 |
| J603 | K10 | R676 | P9 |
| J605 | F9 | R677 | P9 |
| J606 | G9 | R678 | P9 |
| J607 | G9 | R679 | P9 |
| J608 | H9 | R680 | P9 |
| J609 | H9 | R681 | P9 |
| J610 | I9 | R682 | P9 |
| J611 | J9 | R683 | P9 |
| J612 | J9 | R684 | P9 |
| J613 | J9 | R685 | P9 |
| J614 | J8 | R686 | P9 |
| J615 | K10 | R687 | P9 |
| J616 | K10 | R688 | P9 |
| J617 | D8 | R689 | P9 |
| J618 | D8 | R690 | O9 |
| J619 | K10 | R691 | O9 |
| J620 | O9 | R692 | O9 |
| J621 | O9 | R693 | O9 |
| J622 | Q9 | R694 | O9 |
| J630 | I4 | R695 | O9 |
| J641 | L3 | R696 | O9 |
| J642 | L3 | R697 | O9 |
| J643 | Q7 | R698 | O9 |
| JK601 | D10 | R699 | O9 |
| JK602 | J11 | R700 | O9 |
| JK603 | L11 | R701 | O9 |
| L601 | N6 | R702 | M6 |
| L602 | K4 | R703 | H9 |
| Q601 | J7 | R704 | H9 |
| Q602 | J6 | R705 | C8 |
| Q603 | K5 | R706 | E10 |
| Q605 | J4 | R707 | E10 |
| Q606 | K3 | R708 | E9 |
| Q607 | D3 | R709 | E9 |
| Q608 | E4 | R710 | E9 |
| Q609 | F3 | R711 | P8 |
| Q610 | F4 | R712 | H9 |
| Q611 | G4 | R713 | H9 |
| Q612 | G4 | R714 | H9 |
| Q613 | H4 | R715 | H9 |
| Q614 | H4 | R716 | H9 |
| Q615 | C4 | R717 | H9 |
| Q616 | P6 | R718 | H9 |
| Q617 | M6 | R719 | H9 |
| Q618 | E3 | R720 | H9 |
| Q619 | F3 | R721 | H9 |

PRINTED CIRCUIT DIAGRAMS

1. MAIN P.C.BOARD



LOCATION GUIDE (BOTTOM SIDE)

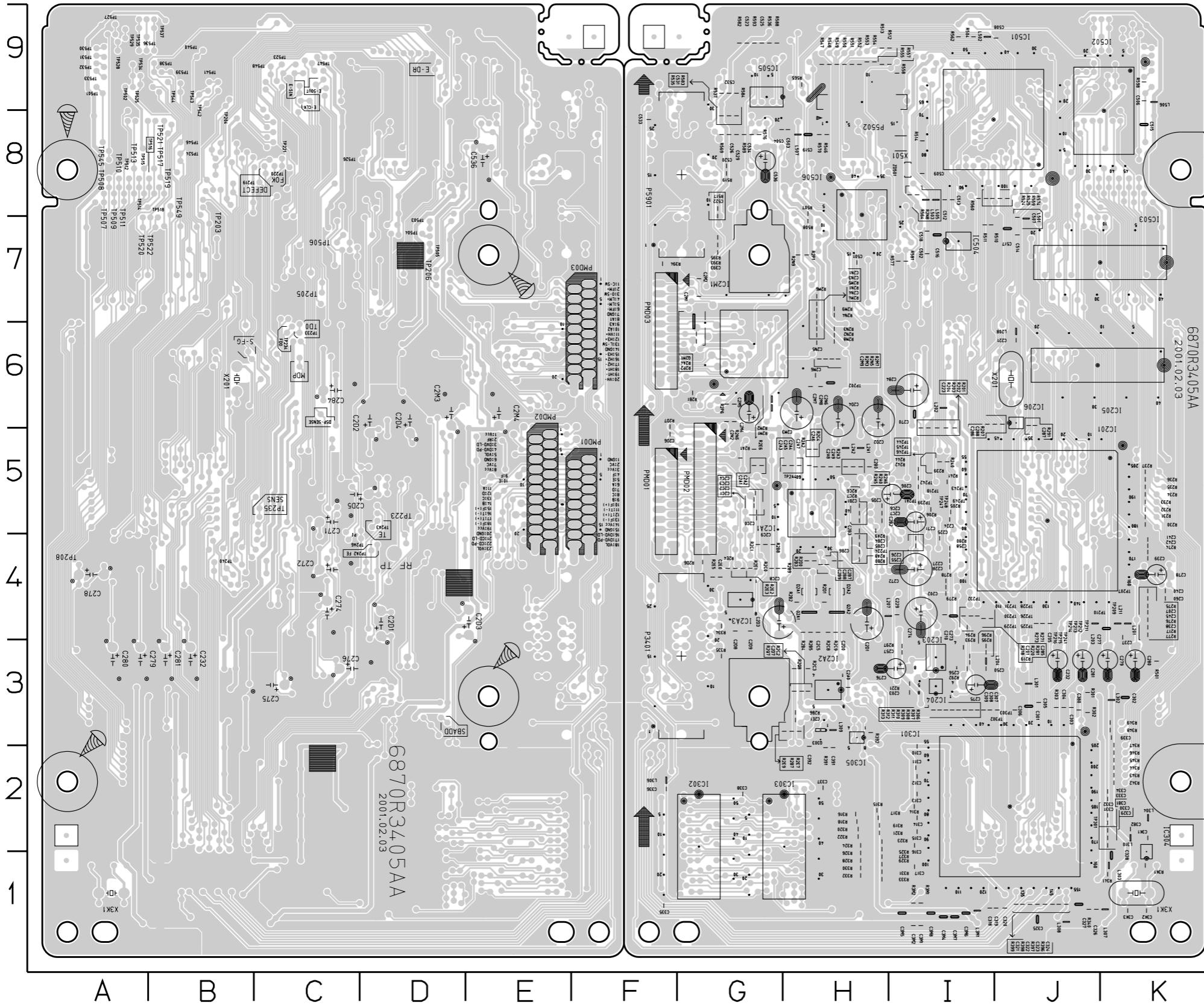
| | | | |
|-------|----|-------|----|
| TP203 | B7 | TP518 | A8 |
| TP204 | B9 | TP519 | A8 |
| TP205 | C7 | TP520 | A7 |
| TP206 | D7 | TP521 | B8 |
| TP208 | A4 | TP522 | B7 |
| TP219 | C8 | TP523 | C9 |
| TP220 | C8 | TP524 | B8 |
| TP221 | C8 | TP525 | A9 |
| TP223 | B5 | TP526 | D8 |
| TP224 | C6 | TP527 | A9 |
| TP225 | C5 | TP528 | A9 |
| TP226 | C5 | TP529 | A9 |
| TP227 | B4 | TP530 | A9 |
| TP228 | D4 | TP531 | A9 |
| TP229 | D5 | TP532 | A9 |
| TP230 | D4 | TP533 | A9 |
| TP501 | A9 | TP534 | A9 |
| TP502 | A9 | TP535 | A9 |
| TP503 | D7 | TP536 | A9 |
| TP504 | D7 | TP537 | B9 |
| TP505 | D7 | TP538 | B9 |
| TP506 | C7 | TP539 | B9 |
| TP507 | A8 | TP540 | B9 |
| TP508 | A8 | TP541 | B9 |
| TP509 | A8 | TP542 | B9 |
| TP510 | A8 | TP543 | B9 |
| TP511 | A8 | TP544 | B9 |
| TP512 | A8 | TP545 | A8 |
| TP513 | A8 | TP546 | B8 |
| TP514 | A8 | TP547 | C9 |
| TP515 | B8 | TP548 | C9 |
| TP516 | B8 | TP549 | B8 |
| TP517 | B8 | TP517 | |

(TOP SIDE)

| | | | | | | | |
|------|----|------|----|------|----|------|----|
| C201 | I4 | C285 | H4 | R203 | I5 | R557 | H2 |
| C202 | I4 | C286 | G8 | R204 | I5 | R558 | H2 |
| C203 | I4 | C287 | H4 | R205 | I5 | R559 | J8 |
| C205 | J4 | C288 | H4 | R206 | I5 | R560 | I8 |
| C206 | I5 | C289 | J1 | I201 | J5 | R207 | H1 |
| C207 | K4 | C290 | J1 | I203 | I3 | R208 | H1 |
| C210 | K4 | C291 | G5 | I218 | I4 | R209 | H1 |
| C221 | J6 | C292 | J1 | R220 | I4 | R210 | H1 |
| C223 | I5 | C293 | K2 | R221 | I3 | R211 | J8 |
| C224 | I5 | C294 | H5 | R230 | K5 | R212 | J8 |
| C225 | I4 | C295 | H5 | R231 | K5 | R213 | I7 |
| C227 | I4 | C296 | K2 | K201 | G6 | R214 | J8 |
| C228 | I4 | C297 | K2 | K202 | G6 | R215 | J8 |
| C229 | I4 | C298 | K2 | K203 | G6 | R216 | J8 |
| C232 | J3 | C299 | F1 | K204 | G6 | R217 | J8 |
| C237 | K4 | C300 | H2 | R235 | K5 | R218 | I8 |
| C238 | K4 | C301 | K8 | R236 | K5 | R219 | I8 |
| C239 | K4 | C302 | K8 | R240 | K5 | R220 | I8 |
| C240 | K4 | C303 | K8 | R241 | K5 | R221 | I8 |
| C241 | K5 | C304 | K8 | R242 | K5 | R222 | I8 |
| C242 | K4 | C305 | H3 | R243 | K5 | R223 | I8 |
| C245 | K4 | C306 | K2 | R244 | K5 | R224 | I8 |
| C250 | I3 | C307 | K2 | R245 | K5 | R225 | I8 |
| C255 | I3 | C308 | K3 | R246 | K5 | R226 | I8 |
| C256 | I3 | C309 | K3 | R247 | K4 | R227 | I8 |
| C257 | I3 | C310 | K2 | R248 | K4 | R228 | I8 |
| C258 | I3 | C311 | K1 | R249 | K4 | R229 | I8 |
| C260 | K4 | C312 | K1 | R250 | K4 | R230 | I8 |
| C270 | I5 | C313 | I1 | R251 | K4 | R231 | I8 |
| C271 | I5 | C314 | I1 | R252 | K4 | R232 | I8 |
| C272 | I5 | C315 | I1 | R253 | K4 | R233 | I8 |
| C273 | I4 | C316 | I1 | R254 | K4 | R234 | I8 |
| C274 | I4 | C317 | I1 | R255 | K4 | R235 | I8 |
| C275 | I3 | C318 | I1 | R256 | K4 | R236 | I8 |
| C276 | I3 | C319 | I1 | R257 | K4 | R237 | I8 |
| C277 | I3 | C320 | J1 | R258 | K4 | R238 | I8 |
| C278 | K3 | C321 | J1 | R259 | K4 | R239 | I8 |
| C279 | K3 | C322 | J1 | R260 | K4 | R240 | I8 |
| C280 | K3 | C323 | J1 | R261 | K4 | R241 | I8 |
| C281 | J3 | C324 | J1 | R262 | K4 | R242 | I8 |
| C284 | I6 | C325 | J1 | R263 | K4 | R243 | I8 |
| C285 | I6 | C326 | J1 | R264 | K4 | R244 | I8 |
| C286 | I6 | C327 | J1 | R265 | K4 | R245 | I8 |
| C287 | J6 | C328 | J1 | R266 | K4 | R246 | I8 |
| C288 | J6 | C329 | J1 | R267 | K4 | R247 | I8 |
| C289 | J6 | C330 | J1 | R268 | K4 | R248 | I8 |
| C290 | J6 | C331 | K2 | R269 | K4 | R249 | I8 |
| C291 | J6 | C332 | K2 | R270 | K4 | R250 | I8 |
| C292 | J6 | C333 | K2 | R271 | K4 | R251 | I8 |
| C293 | J6 | C334 | K2 | R272 | K4 | R252 | I8 |
| C294 | J6 | C335 | K2 | R273 | K4 | R253 | I8 |
| C295 | J6 | C336 | K2 | R274 | K4 | R254 | I8 |
| C296 | J6 | C337 | K2 | R275 | K4 | R255 | I8 |
| C297 | J6 | C338 | K2 | R276 | K4 | R256 | I8 |
| C298 | J6 | C339 | K3 | R277 | K4 | R257 | I8 |
| C299 | J6 | C340 | K3 | R278 | K4 | R258 | I8 |
| C300 | J6 | C341 | K3 | R279 | K4 | R259 | I8 |
| C301 | J6 | C342 | K3 | R280 | K4 | R260 | I8 |
| C302 | J6 | C343 | K3 | R281 | K4 | R261 | I8 |
| C303 | J6 | C344 | K3 | R282 | K4 | R262 | I8 |
| C304 | H7 | C345 | K3 | R283 | K4 | R263 | I8 |
| C305 | H7 | C346 | K3 | R284 | K4 | R264 | I8 |
| C306 | H7 | C347 | K3 | R285 | K4 | R265 | I8 |
| C307 | H7 | C348 | K3 | R286 | K4 | R266 | I8 |
| C308 | H7 | C349 | K3 | R287 | K4 | R267 | I8 |
| C309 | H7 | C350 | K3 | R288 | K4 | R268 | I8 |
| C310 | H7 | C351 | K3 | R289 | K4 | R269 | I8 |
| C311 | H7 | C352 | K3 | R290 | K4 | R270 | I8 |
| C312 | H7 | C353 | K3 | R291 | K4 | R271 | I8 |
| C313 | H7 | C354 | K3 | R292 | K4 | R272 | I8 |
| C314 | H7 | C355 | K3 | R293 | K4 | R273 | I8 |
| C315 | H7 | C356 | K3 | R294 | K4 | R274 | I8 |
| C316 | H7 | C357 | K3 | R295 | K4 | R275 | I8 |
| C317 | H7 | C358 | K3 | R296 | K4 | R276 | I8 |
| C318 | H7 | C359 | K3 | R297 | K4 | R277 | I8 |
| C319 | H7 | C360 | K3 | R298 | K4 | R278 | I8 |
| C320 | J1 | C361 | K3 | R299 | K4 | R279 | I8 |
| C321 | J1 | C362 | K3 | R300 | K4 | R280 | I8 |
| C322 | J1 | C363 | K3 | R301 | K4 | R281 | I8 |
| C323 | J1 | C364 | K3 | R302 | K4 | R282 | I8 |
| C324 | J1 | C365 | K3 | R303 | K4 | R283 | I8 |
| C325 | J1 | C366 | K3 | R304 | K4 | R284 | I8 |
| C326 | J1 | C367 | K3 | R305 | K4 | R285 | I8 |
| C327 | J1 | C368 | K3 | R306 | K4 | R286 | I8 |
| C328 | J1 | C369 | K3 | R307 | K4 | R287 | I8 |
| C329 | J1 | C370 | K3 | R308 | K4 | R288 | I8 |
| C330 | J1 | C371 | K3 | R309 | K4 | R289 | I8 |
| C331 | J1 | C372 | K3 | R310 | K4 | R290 | I8 |
| C332 | J1 | C373 | K3 | R311 | K4 | R291 | I8 |
| C333 | J1 | C374 | K3 | R312 | K4 | R292 | I8 |
| C334 | J1 | C375 | K3 | R313 | K4 | R293 | I8 |
| C335 | J1 | C376 | K3 | R314 | K4 | R294 | I8 |
| C336 | J1 | C377 | K3 | R315 | K4 | R295 | I8 |
| C337 | J1 | C378 | K3 | R316 | K4 | R296 | I8 |
| C338 | J1 | C379 | K3 | R317 | K4 | R297 | I8 |
| C339 | J1 | C380 | K3 | R318 | K4 | R298 | I8 |
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| C131 | M5 | C497 | J9 | D134 | M6 | J823 | P6 | R168 | P6 | R473 | I5 | R850 | F2 |
| C132 | M5 | C498 | J9 | D135 | M6 | J824 | P6 | R169 | P6 | R474 | I5 | R851 | F2 |
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| C281 | J3 | C2N5 | H6 | C506 | K9 | L309 | H3 | R2A0 | H5 | R208 | H3 | R511 | I7 | R241 | J4 |
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| C287 | J6 | C303 | J3 | C512 | I8 | L502 | I9 | R2A4 | H5 | R306 | I3 | R517 | H8 | R245 | I5 |
| C288 | J6 | C304 | J3 | C513 | I8 | L503 | I8 | R2A5 | H5 | R307 | I3 | R519 | H8 | R246 | I5 |
| C2A0 | H3 | C305 | J3 | C514 | J7 | L505 | I8 | R2A6 | H5 | R308 | I3 | R524 | I8 | R247 | I5 |
| C2A1 | G5 | C306 | J3 | C515 | K8 | L506 | K9 | R2A8 | H4 | R309 | I3 | R525 | I8 | R248 | I5 |
| C2A2 | G5 | C307 | J3 | C516 | I7 | L507 | H8 | R2A9 | H5 | R310 | I3 | R535 | H8 | R249 | I5 |
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(Solder Side)

SECTION 4 MECHANISM

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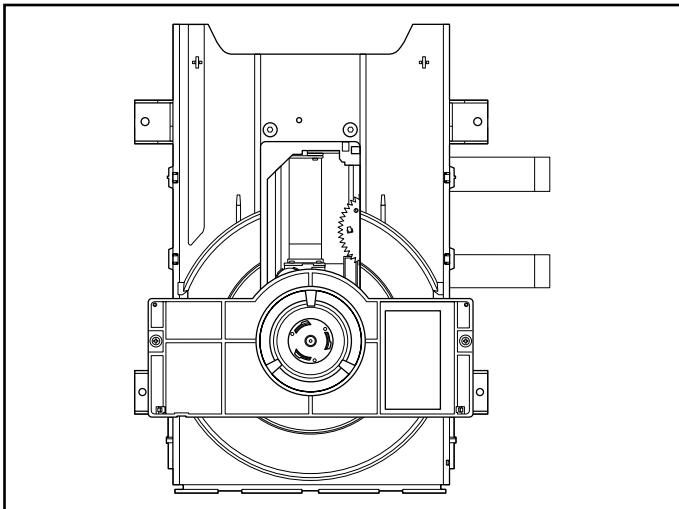
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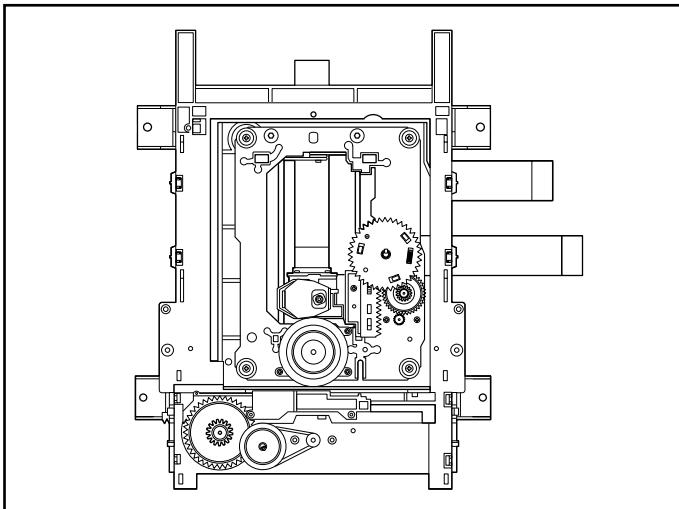
DECK MECHANISM PARTS LOCATION

• Top View (With Tray)

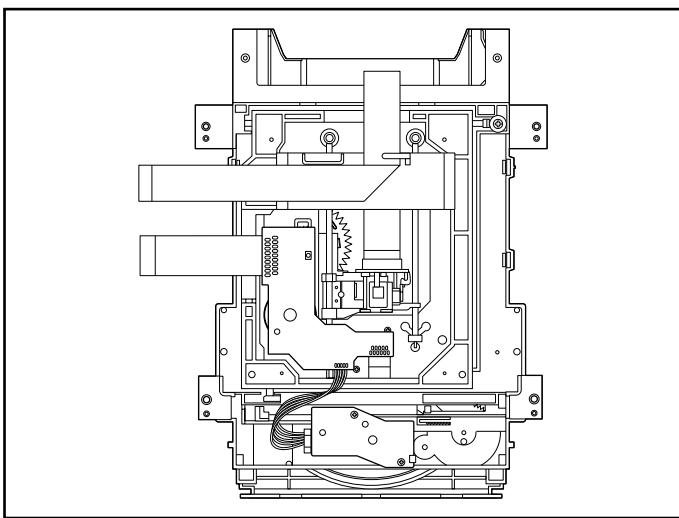


| Procedure Starting No. | Parts | Fixing Type | Disass embly | Figure |
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| 1, 2 | 3 Plate Clamp | | | 4-1 |
| 1, 2, 3 | 4 Magnet Clamp | | | 4-1 |
| 1, 2, 3, 4 | 5 Clamp Upper | | | 4-1 |
| 1 | 6 Tray Disc | | | 4-2 |
| 1, 6 | 7 Base Assembly Sled | | | 4-3 |
| 1, 2, 6 | 8 Gear Assembly Feed | 4 Screws, 1 Connector 1 Locking Tabs | | 4-3 |
| 1, 2, 6, 8 | 9 Gear Middle | | | 4-3 |
| 1, 2, 6, 8, 9 | 10 Gear Assembly Rack | 1 Screw | | 4-3 |
| 1, 2, 7 | 11 Rubber Rear | | | 4-3 |
| 1, 2, 7 | 12 Frame Assembly Up/Down | 1 Screw | Bottom | 4-4 |
| 1, 2 | 13 Belt Loading | 1 Locking Tab | | 4-4 |
| 1, 2, 13 | 14 Gear Pulley | | | 4-4 |
| 1, 2, 13, 14 | 15 Gear Loading | 1 Locking Tab | | 4-4 |
| 1, 2, 7, 12, 13, 14 | 16 Guide Up/Down | | | 4-4 |
| 1, 2, 13 | 17 PWB Assembly Loading | 1 Locking Tab 1 Hook 2Screw | Bottom | 4-4 |
| 1, 2, 7, 12, 13, 14, 15, 16, 17 | 18 Base Main | 2 Locking Tabs | | 4-4 |

• Top View (Without Tray)



• Bottom View



Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY

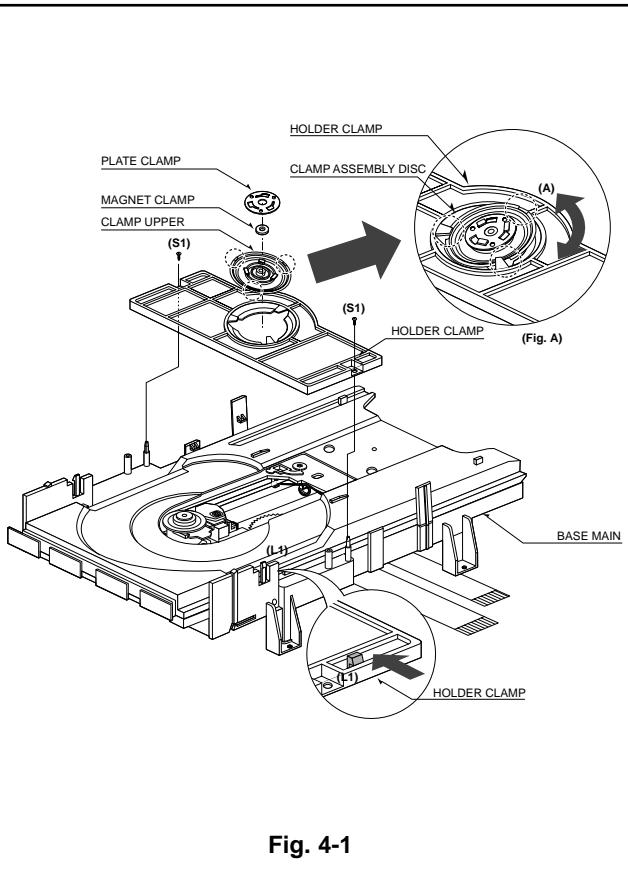


Fig. 4-1

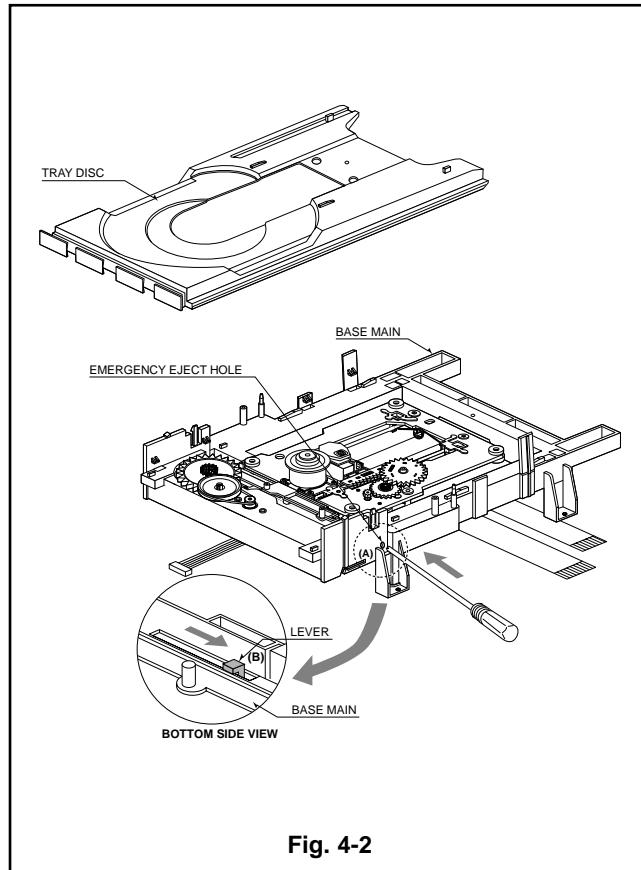


Fig. 4-2

1. Holder Clamp (Fig. 4-1)

- 1) Release 2 Screws(S1).
- 2) Unhook 2 Locking Tabs(L1).
- 3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

- 1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper

2. Tray Disc (Fig. 4-2)

- 1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
- 2) Pull the Tray Disc until it is separated from the Base Main completely.

DECK MECHANISM DISASSEMBLY

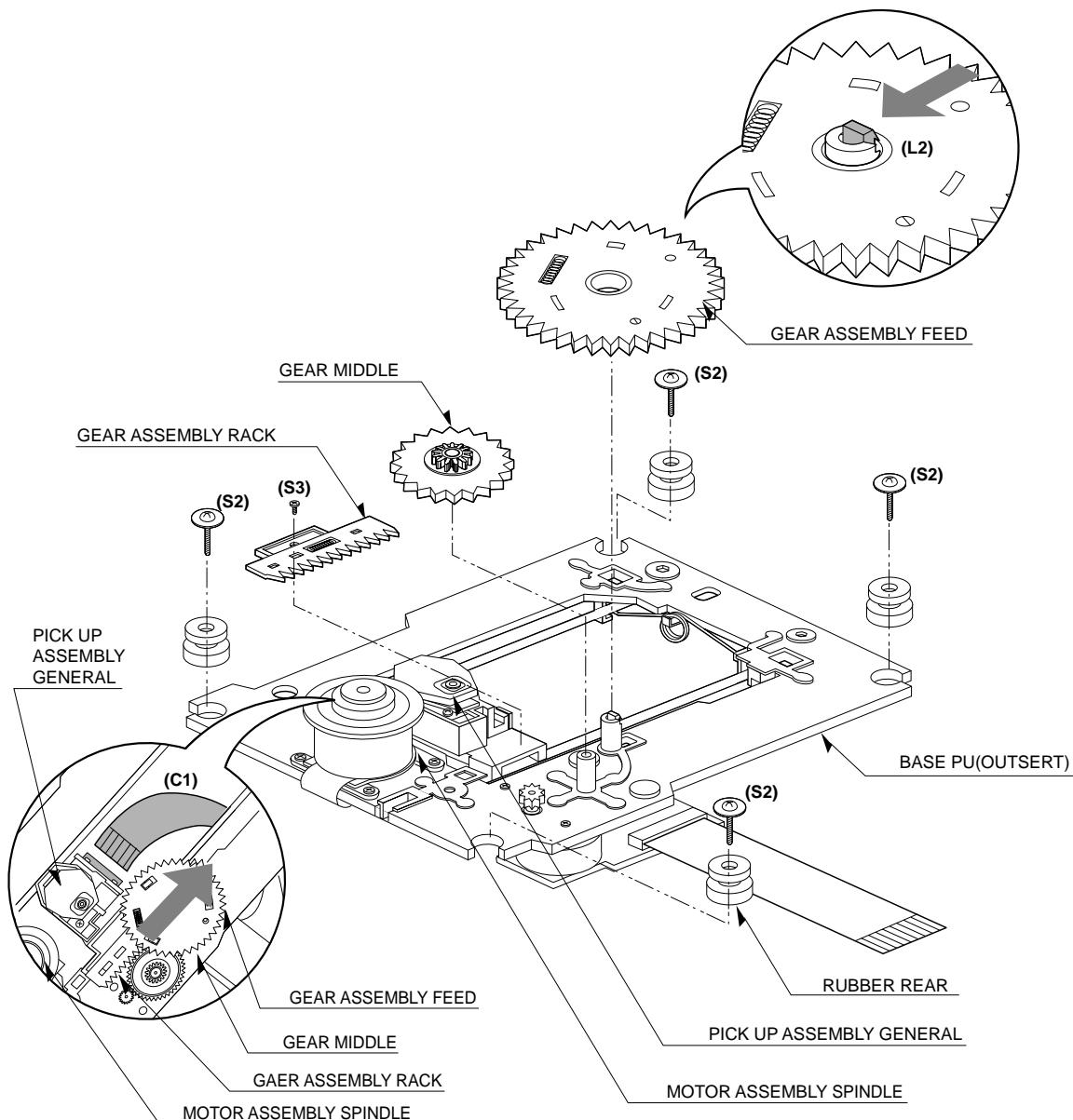


Fig. 4-3

3. Base Assembly Sled (Fig. 4-3)

- 1) Release 4 Screw(S2).
- 2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

- 1) Unhook the Locking Tab(L2) in direction of arrow.

3-2. Gear Middle

3-3. Gear Assembly Rack

- 1) Release the Scerw(S3)

4. Rubber Rear (Fig. 4-3)

DECK MECHANISM DISASSEMBLY

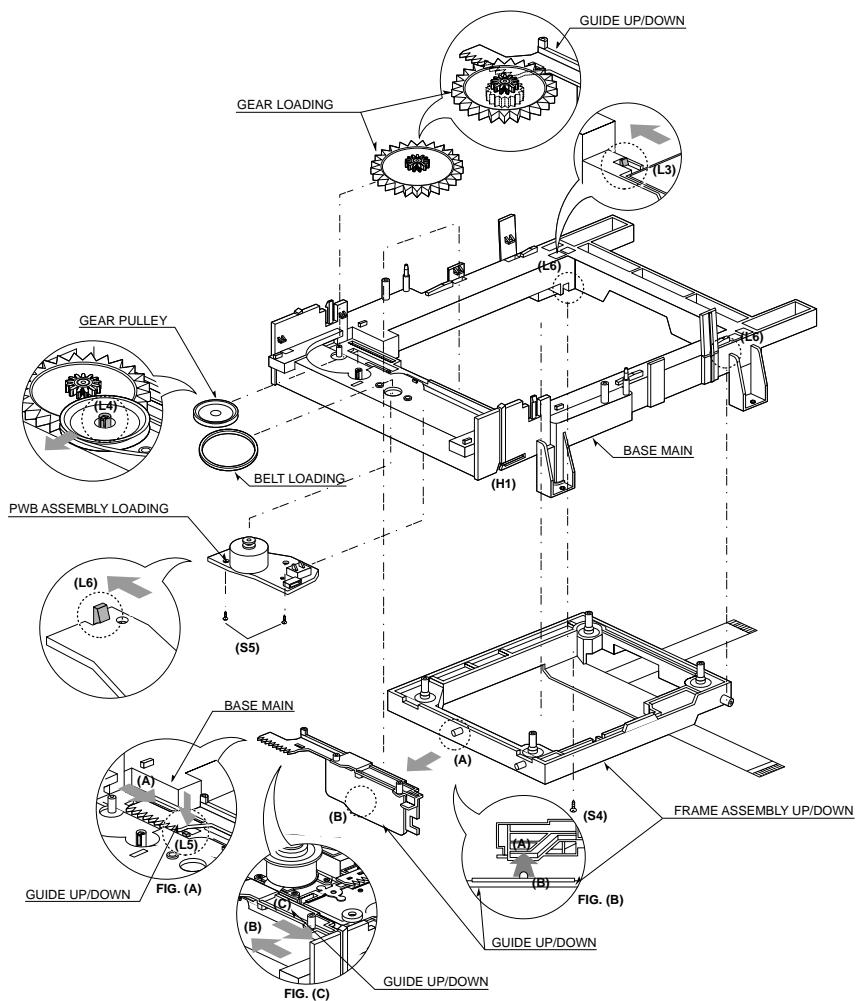


Fig. 4-4

5. Frame Assembly Up/Down

Note

Put the Base Main face down(Bottom Side)

- 1) Release the Screw(S4)
- 2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 4-4)

Note

Put the Base Assembly Main on original position(Top Side)

7. Gear pulley (Fig. 4-4)

- 1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 4-4)

9. Guide Up/Down (Fig. 4-4)

- 1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
- 2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading

Note

Put the Base Main face down(Bottom Side)

- 1) Release 2 Screws(S5)
- 2) Unkool the Loading Motor Connector (C2) from the Hook (H1) on the Base Main.
- 3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 4-4)

DECK MECHANISM ADJUSTMENT

1. Tools and Fixtures for SVC

- For SVC Program Down-Load

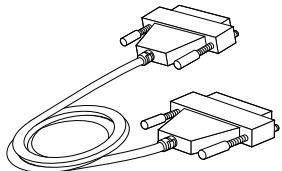


Fig.1. Printer Cable

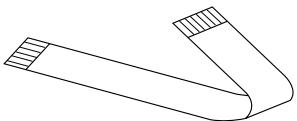


Fig.2. FFC Cable (15 pin)

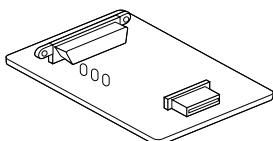


Fig.3. Jig Board

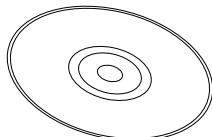


Fig.4. Deviation Disc (0.8mm)

- For T-Skew and R-Skew Adjustment

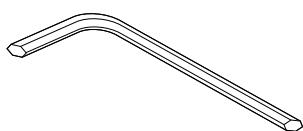


Fig.5. L-Wrench(3mm)

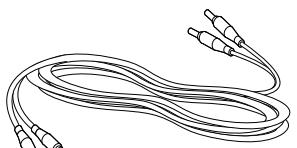


Fig.6. RCA Jack

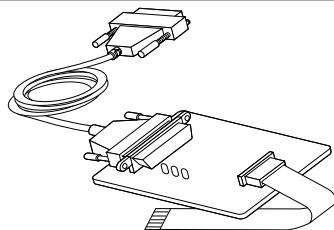


Fig.7. Connecting Method

2. Install Process

1. Connect Fig. 1, 2, 3 as Fig. 7.
2. Plug out the Power cord of DVD set.
3. Connect FFC Cable(Fig.2) to the Connector on DVD Set(Fig.8)
4. Connect Printer Cable(Fig.1) to the P.C.Printer Port (LPT1).
5. Plug in the DVD Power cord.
6. Press the Menu key on Remocon.
7. Confirm No.1 LED(RED Color) of Jig board is ON. (Fig.9)
8. Perform The S/W for Down-load at P.C.
9. Open the Program File for Adjusting(Fig.10)
10. Click the Down-load Icon and perform Program Down-load.
11. Displayed remaining time.
12. Confirm LED No.1(RED) and No.2(GREEN) is ON.
13. Plug out the DVD Set Power cord.
14. Disconnect the FFC Cable.

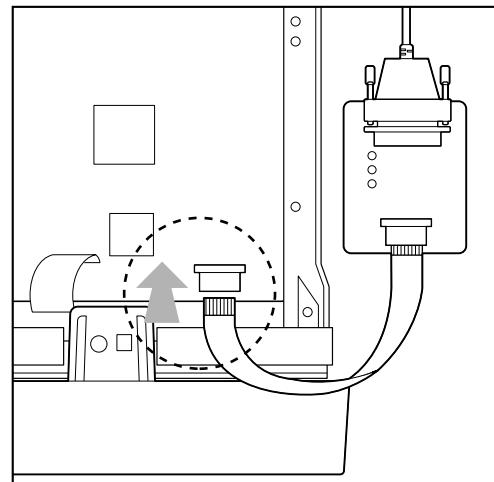


Fig.8. FFC Cable Connecting

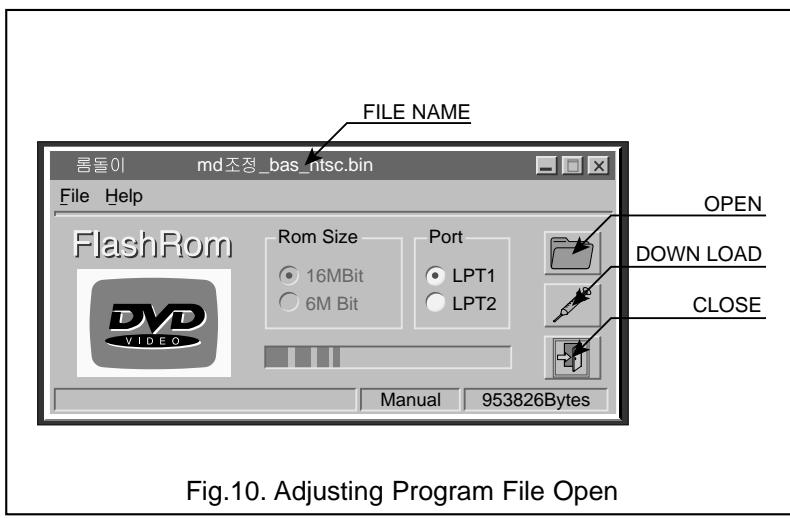


Fig.10. Adjusting Program File Open

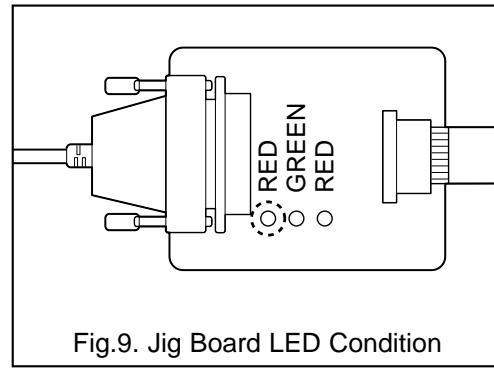


Fig.9. Jig Board LED Condition

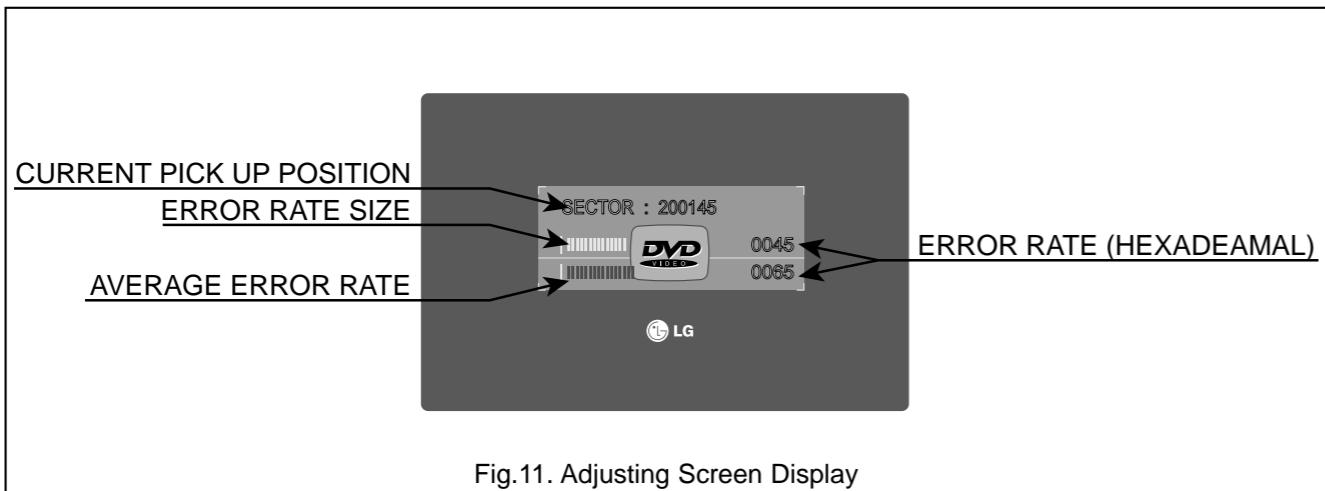


Fig.11. Adjusting Screen Display

3. Adjustment Procedure

1. Insert Disc(Only Open/Close Key Pressing)
2. Wait Until the Sector Display is about 200,000 (Fig.11)
3. Adjust R-Skew adjusting Point until the Error rate has Minimum rate with L-wrench (3mm).
4. Adjust T-Skew Adjusting Point until the Error rate has Minimum rate.
5. Repeat No. 3, 4 adjusting procedure until the Error rate have Minimum rate.
6. Error rate; SVC-3561 Disc=< 30 and TDV-533 Disc=< 100. If not, Please confirm Play ability on screen.

You can watch the screen when pressing the Stop key after the Adjusting is finished, Then perform Play and Scan/Skip operation at Chapter1 and Chapter16 and confirm screen condition, normal or abnormal.

- Please obtain these software for Adjusting through our Global Cyber Service Center(GCSC).
- The location is <http://biz.lgservice.com>
 - & Web Site for End users
 - & Software updates
 - & Product : DVD Player
 - & Search.

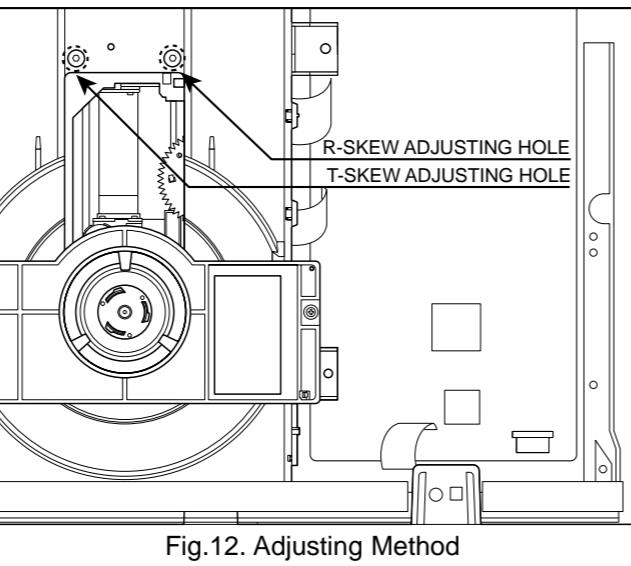
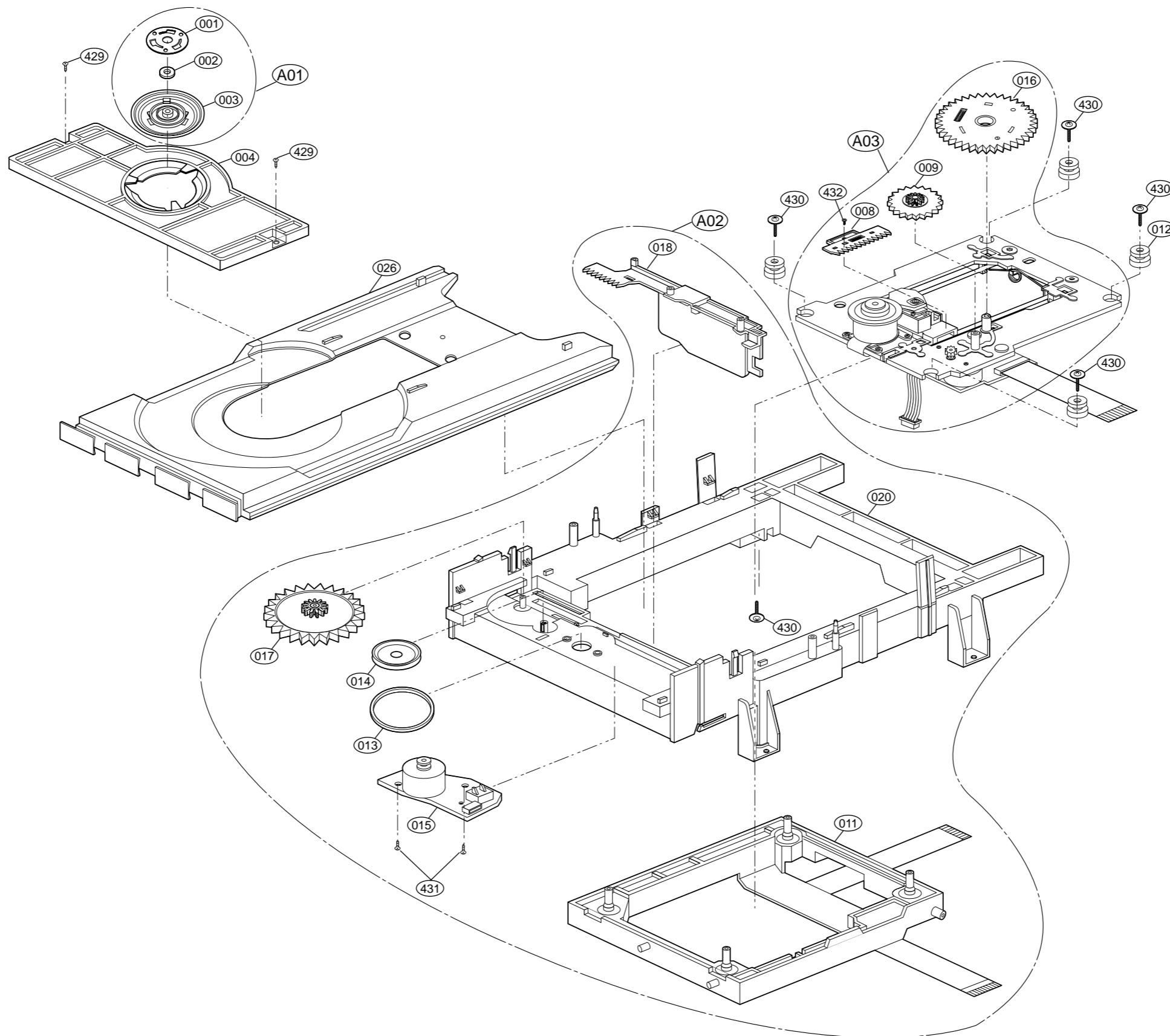


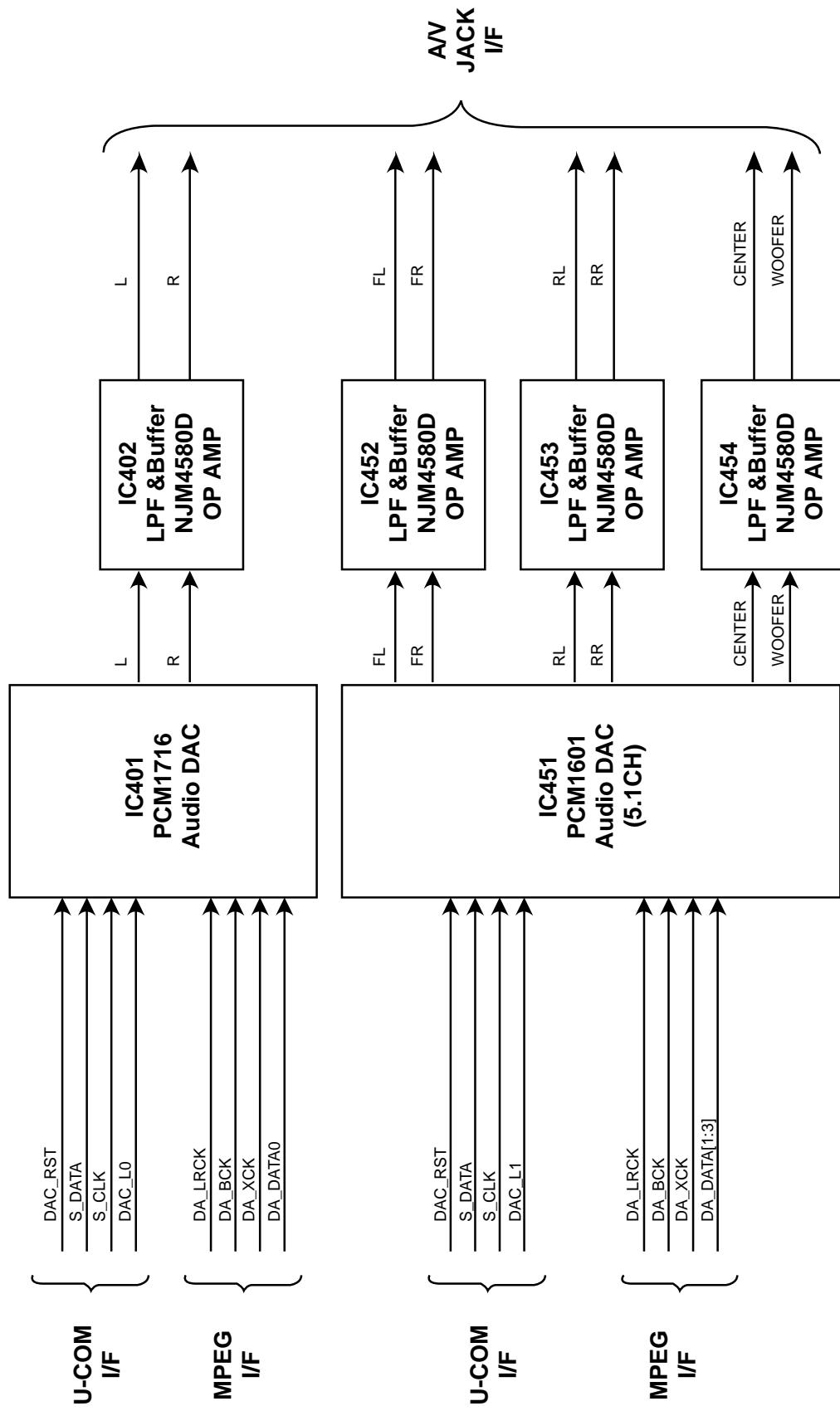
Fig.12. Adjusting Method

EXPLODED VIEWS

1. Deck Mechanism Exploded View



4. Audio Block Diagram



IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

• Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the Δ symbol and shaded (X) parts are critical for safety.

Replace only with specified part numbers.

Note : Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Use Specified internal wiring. Note especially:

- 1) Double insulated wires
- 2) High voltage leads

4. Use specified insulating materials for hazardous live parts. Note especially:

- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers
- 4) Insulation sheets for transistor

5. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

6. Check that replaced wires do not contact sharp edged or pointed parts.

7. 1) When a power cord has been replaced, check that A mark is made on the cord, under strain, near the aperture, and the flexible cord is subjected 100 times to a pull of 40N for a duration of 1 second each.

- 2) During the test, the cord shall not be displaced by more than 2mm

8. Also check areas surrounding repaired locations.

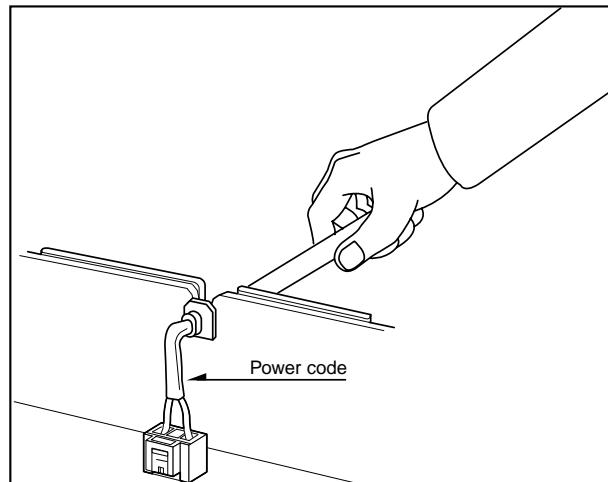


Fig. 1

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

• Insulation resistance test

confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) See table below.

• Dielectric strength test

Confirm specified dielectric strength or greater between power cord prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) See table below.

• Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

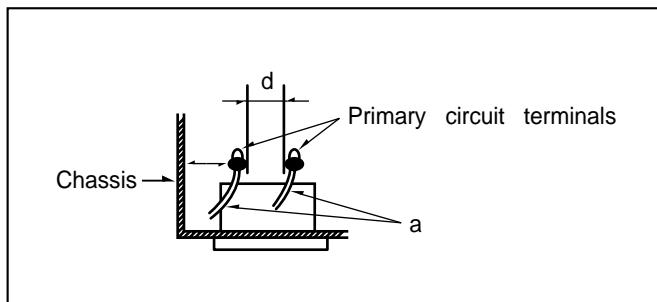


Fig. 2

Table 1 : Ratings for selected areas

| AC Line Voltage | Region | Insulation Resistance | Dielectric Strength | Clearance Distance(d),(d') |
|-------------------------------|---------------------|-----------------------|---------------------|--|
| *100 to 130 V 200 to 240 V | Europe Australia | F 10 MΩ/500 V DC | 4kV 1 minute | F 6mm(d) F 8mm(d) (a Power cord) |

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

• Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

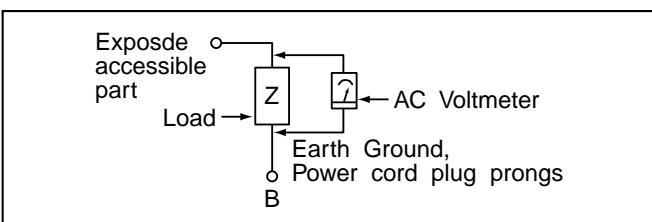


Fig. 3

Table 2:Leakage current ratings for selected areas.

| AC Line Voltage | Region | Load Z | Leakage Current(i) | Earth Ground (B) to : |
|-----------------|--------|-----------------|--------------------------------|-------------------------|
| 100 to 130 V | Europe | ○—△△△—○ 2kΩ | i E 0.7m A peak i E 2m A DC | Antenna earth terminals |
| 200 to 240 V | | ○—△△△—○ 50kΩ | i E 0.7m A peak i E 2m A DC | Other terminals |

Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

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2) During the test, the cord shall not be displaced by more than 2mm

8. Also check areas surrounding repaired locations.

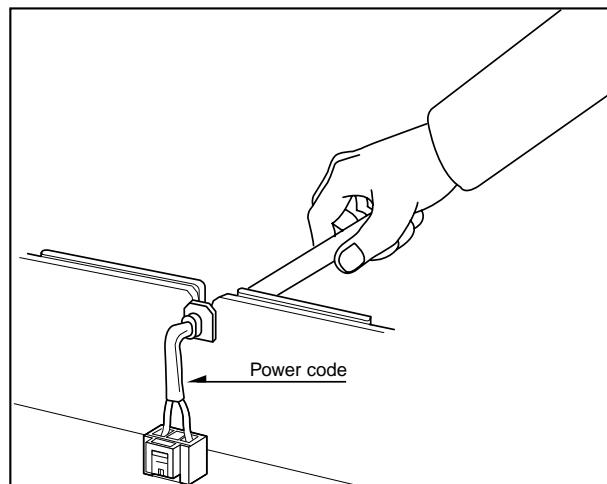


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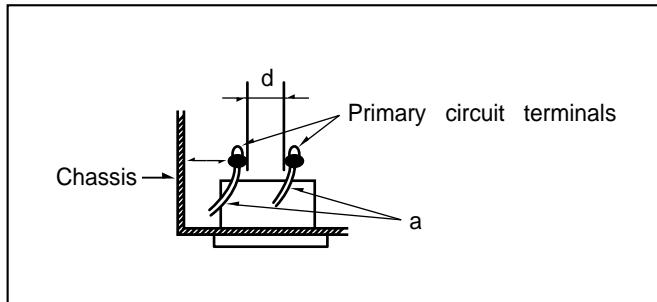


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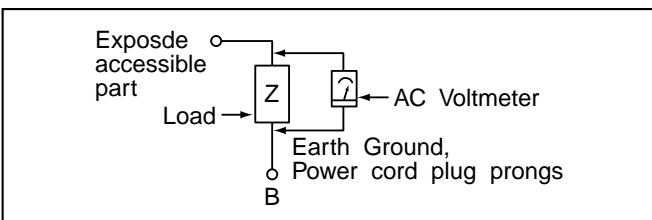


Fig. 3

Table 2:Leakage current ratings for selected areas.

| AC Line Voltage | Region | Load Z | Leakage Current(i) | Earth Ground (B) to : |
|-----------------|--------|-----------------|--------------------------------|-------------------------|
| 100 to 130 V | Europe | ○—△△△—○ 2kΩ | i E 0.7m A peak i E 2m A DC | Antenna earth terminals |
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Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

DISASSEMBLY

CAUTION BEFORE STARTING SERVICING

Electronic parts are susceptible to static electricity and may easily damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

CABINET DISASSEMBLY

1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow

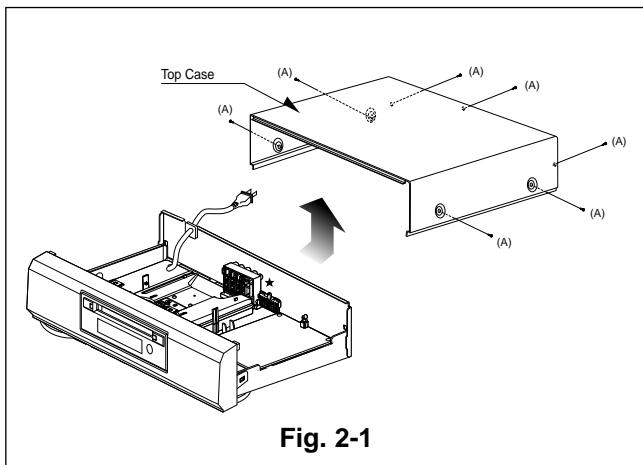


Fig. 2-1

3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Release 2 screws (B).
4. Pull the front panel toward you while pressing 7 stoppers to disengage, and remove the front panel. (See Fig. 2-3)

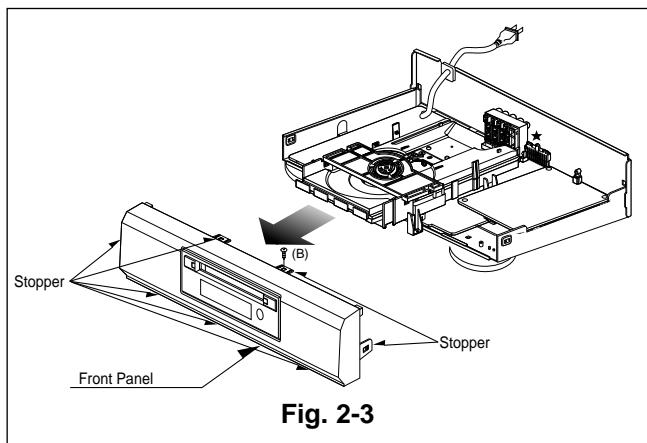


Fig. 2-3

2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

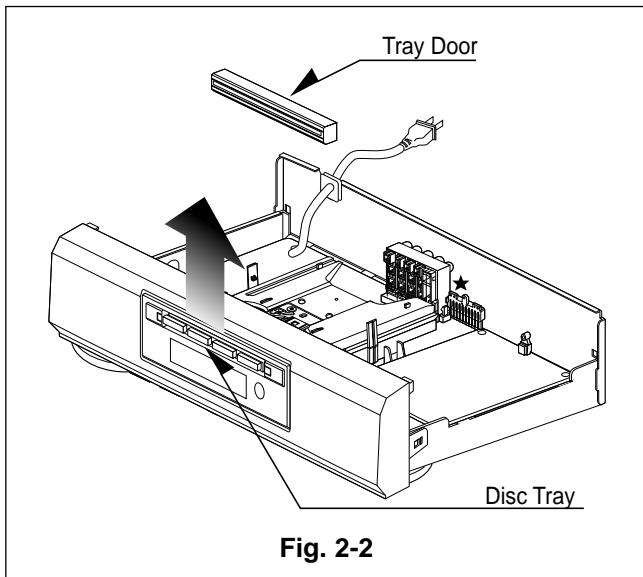


Fig. 2-2

CIRCUIT BOARD DISASSEMBLY

Note: Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.

After replacing the main circuit board, open the land after inserting the flexible connector.
(Refer to Mechanism Disassembly)

1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 12 screw (C).
3. Remove the deck from Main Circuit Board.
4. Remove Main Circuit Board from Interface Board.
5. Remove 2 screw (D).
6. Remove Interface Board from the chassis.

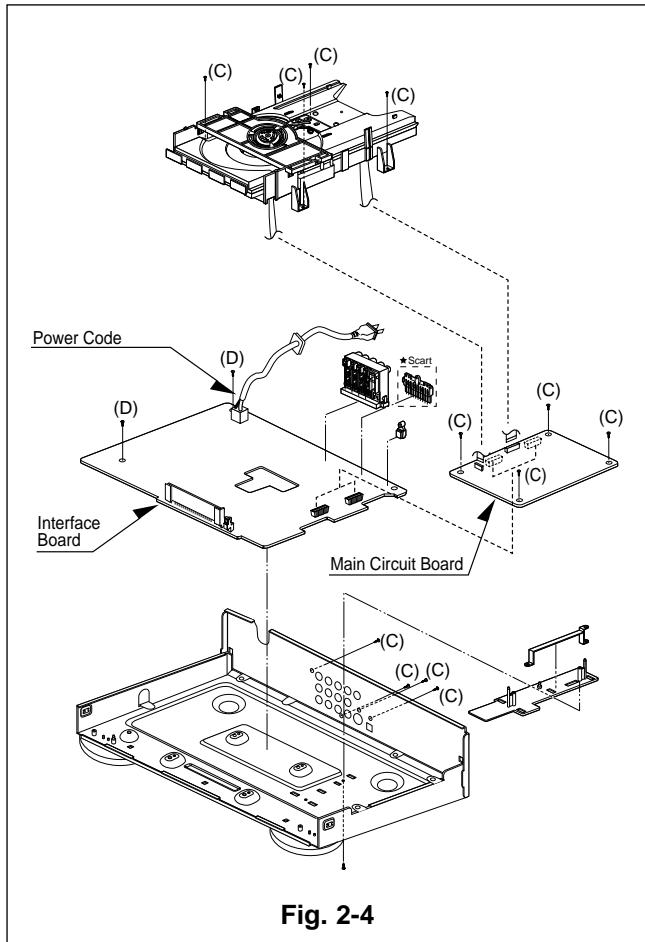


Fig. 2-4

2. Digitron and Key Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 4 screws (E), and remove the digitron circuit board.

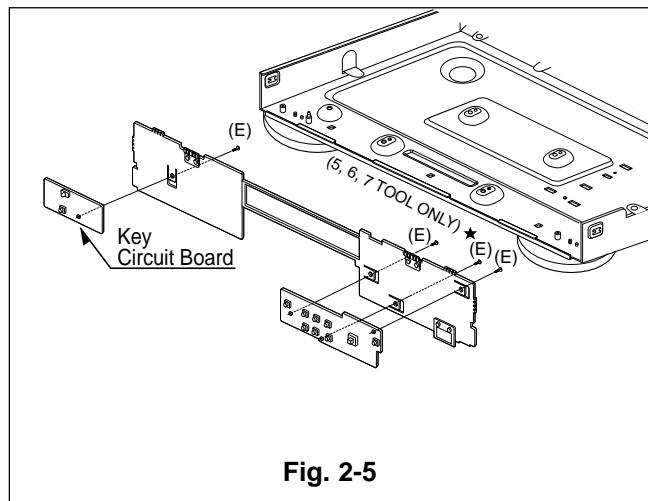
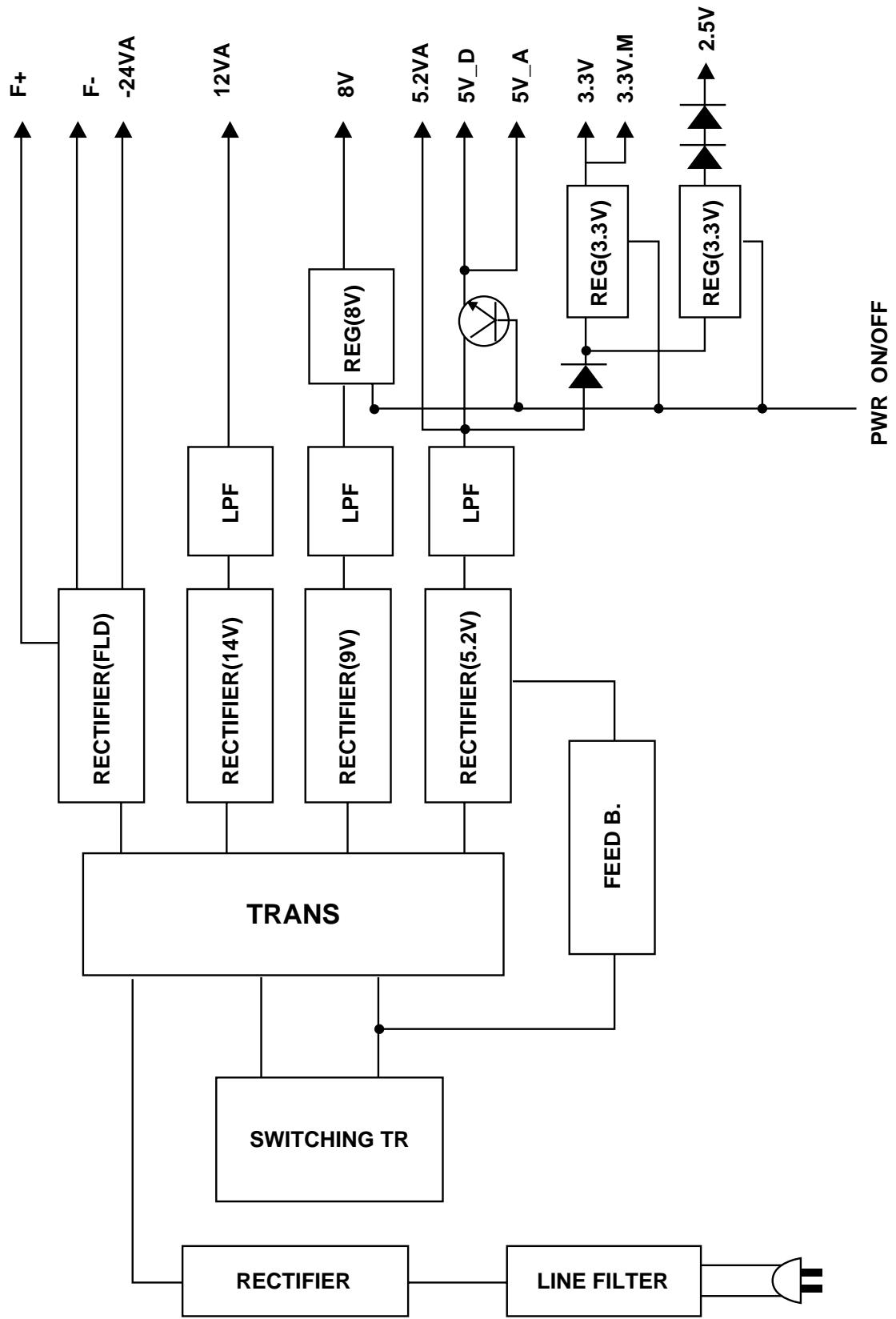


Fig. 2-5

2. Power(SMPS) Block Diagram



DV4000's

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- SECTION 2CABINET & MAIN CHASSIS**
- SECTION 3ELECTRICAL**
- SECTION 4MECHANISM**
- SECTION 5REPLACEMENT PARTS LIST**

SECTION 1

SUMMARY

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| SERVICING PRECAUTIONS | 1-4 |
| •General Servicing Precautions | |
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| •Electrostatically Sensitive Devices | |
| SPECIFICATIONS | 1-5 |

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8. Also check areas surrounding repaired locations.

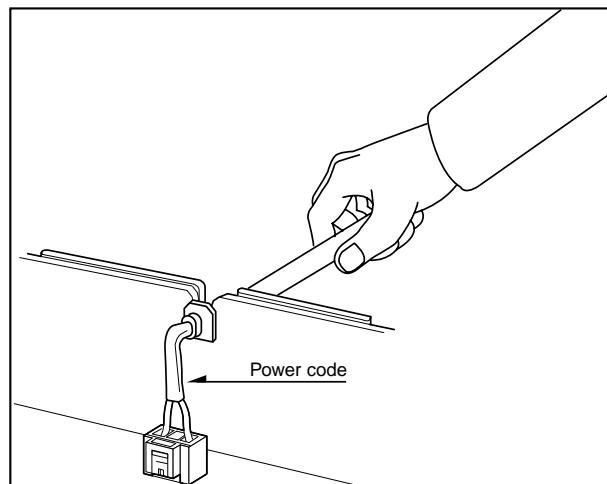


Fig. 1

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Confirm specified dielectric strength or greater between power cord prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) See table below.

• Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

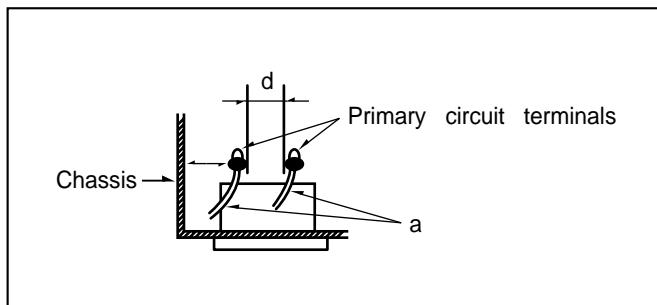


Fig. 2

Table 1 : Ratings for selected areas

| AC Line Voltage | Region | Insulation Resistance | Dielectric Strength | Clearance Distance(d),(d') |
|-------------------------------|---------------------|-----------------------|---------------------|--|
| *100 to 130 V 200 to 240 V | Europe Australia | F 10 MΩ/500 V DC | 4kV 1 minute | F 6mm(d) F 8mm(d) (a Power cord) |

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

• Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

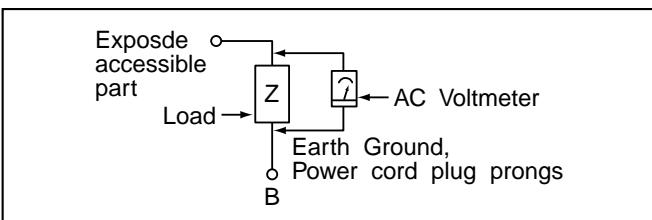


Fig. 3

Table 2:Leakage current ratings for selected areas.

| AC Line Voltage | Region | Load Z | Leakage Current(i) | Earth Ground (B) to : |
|-----------------|--------|-----------------|--------------------------------|-------------------------|
| 100 to 130 V | Europe | ○—△△△—○ 2kΩ | i E 0.7m A peak i E 2m A DC | Antenna earth terminals |
| 200 to 240 V | | ○—△△△—○ 50kΩ | i E 0.7m A peak i E 2m A DC | Other terminals |

Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

SPECIFICATIONS

DVD VIDEO PLAYER

| | |
|---------------------------------------|---|
| Power supply | AC 100~240V, 50/60Hz |
| Power consumtum | 16W |
| Mass | 3.0kg(6.6lbs) |
| External dimensions | 430 x 88 x 247 (W x H x D) |
| Signal system | PAL 625/50, NTSC 525/60 |
| Laser | Semiconductor laser, wavelength 650nm |
| Frequency range (digital audio) | 4Hz to 20kHz |
| Signal-to-noise ratio (digital audio) | More than 100dB (EIAJ) |
| Audio dynamic range (digital audio) | More than 95dB (EIAJ) |
| Harmonic distortion(digital audio) | 0.008% |
| Wow and flutter | Below measurable level (less than +0.001%(W.PEAK)) (EIAJ) |
| Operations | Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal |

OUTPUTS

| | |
|-----------------------------|---|
| Video outputs | 1.0V(p-p), 75Ω, negative sync., RCA jack x 1/SCART(TO TV) |
| S video outputs | (Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.286V(p-p), 75Ω |
| Audio output(digital audio) | 0.5V(p-p), 75Ω, RCA jack X 1 |
| Audio output(optical audio) | Optical connector x 1 |
| Audio output(analog audio) | 2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1/ SCART(TO TV) |

*Designs and specifications are subject to change without notice.

*Weight and dimensions shown are approximate.

SECTION 2

CABINET & MAIN CHASSIS

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| 2. EXPLODED VIEWS | 2-4 |
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DISASSEMBLY

CAUTION BEFORE STARTING SERVICING

Electronic parts are susceptible to static electricity and may easily damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

CABINET DISASSEMBLY

1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow

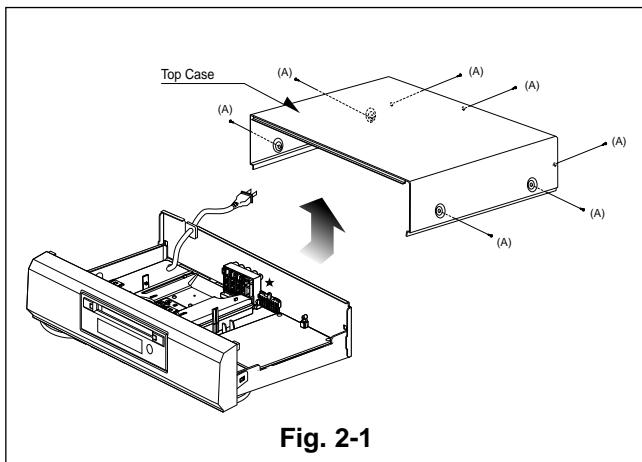


Fig. 2-1

3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Release 2 screws (B).
4. Pull the front panel toward you while pressing 7 stoppers to disengage, and remove the front panel. (See Fig. 2-3)

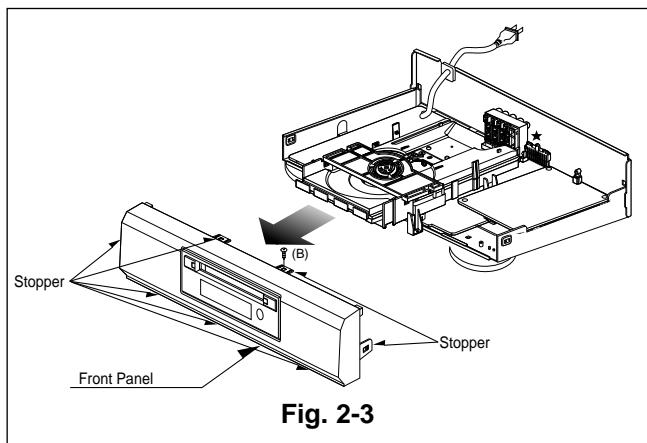


Fig. 2-3

2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

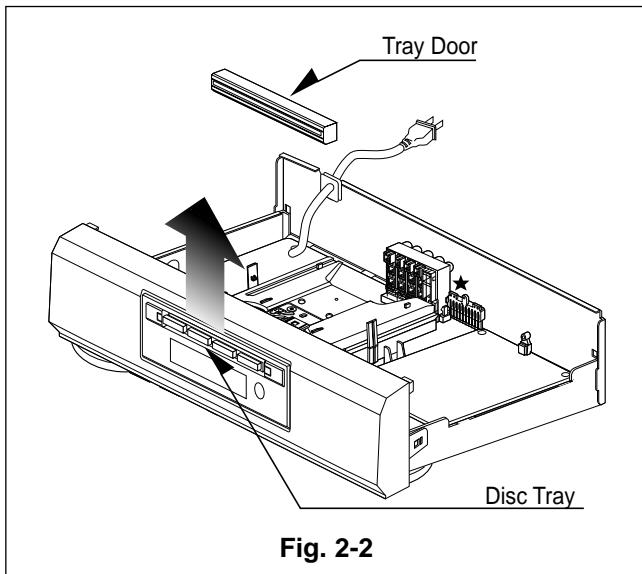


Fig. 2-2

CIRCUIT BOARD DISASSEMBLY

Note: Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.

After replacing the main circuit board, open the land after inserting the flexible connector.
(Refer to Mechanism Disassembly)

1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 12 screw (C).
3. Remove the deck from Main Circuit Board.
4. Remove Main Circuit Board from Interface Board.
5. Remove 2 screw (D).
6. Remove Interface Board from the chassis.

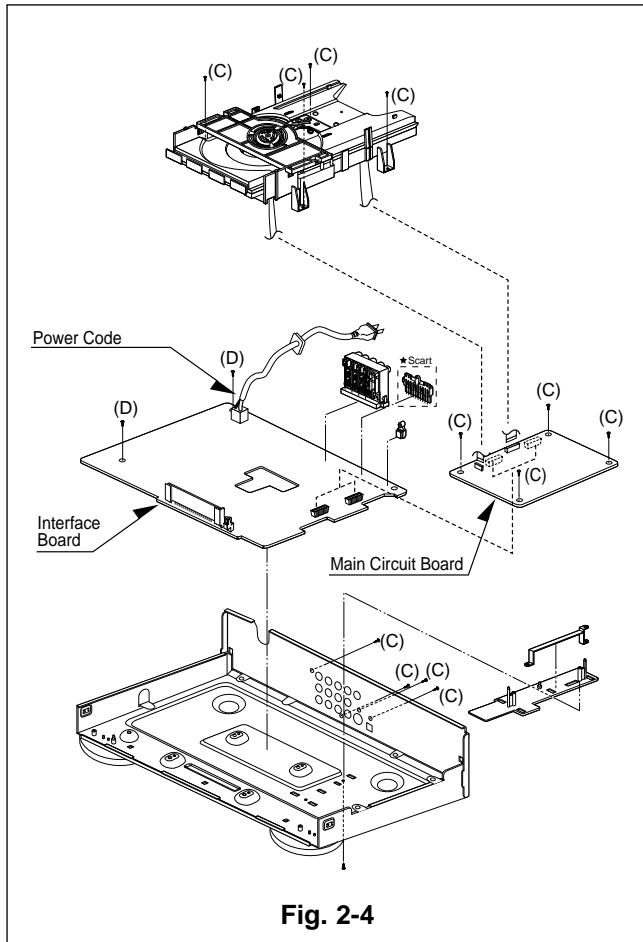


Fig. 2-4

2. Digitron and Key Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 4 screws (E), and remove the digitron circuit board.

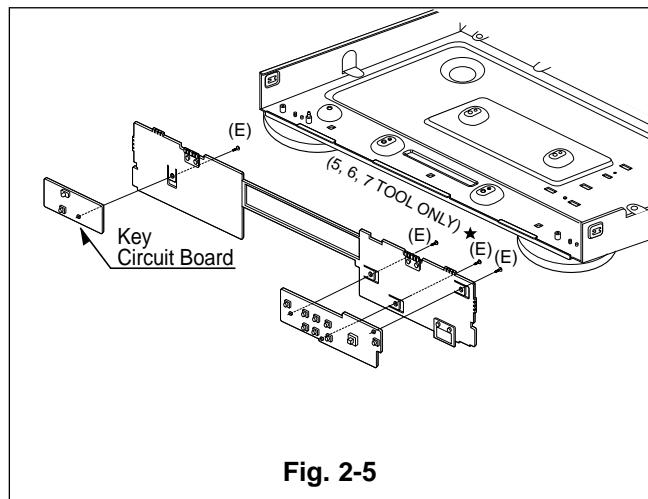


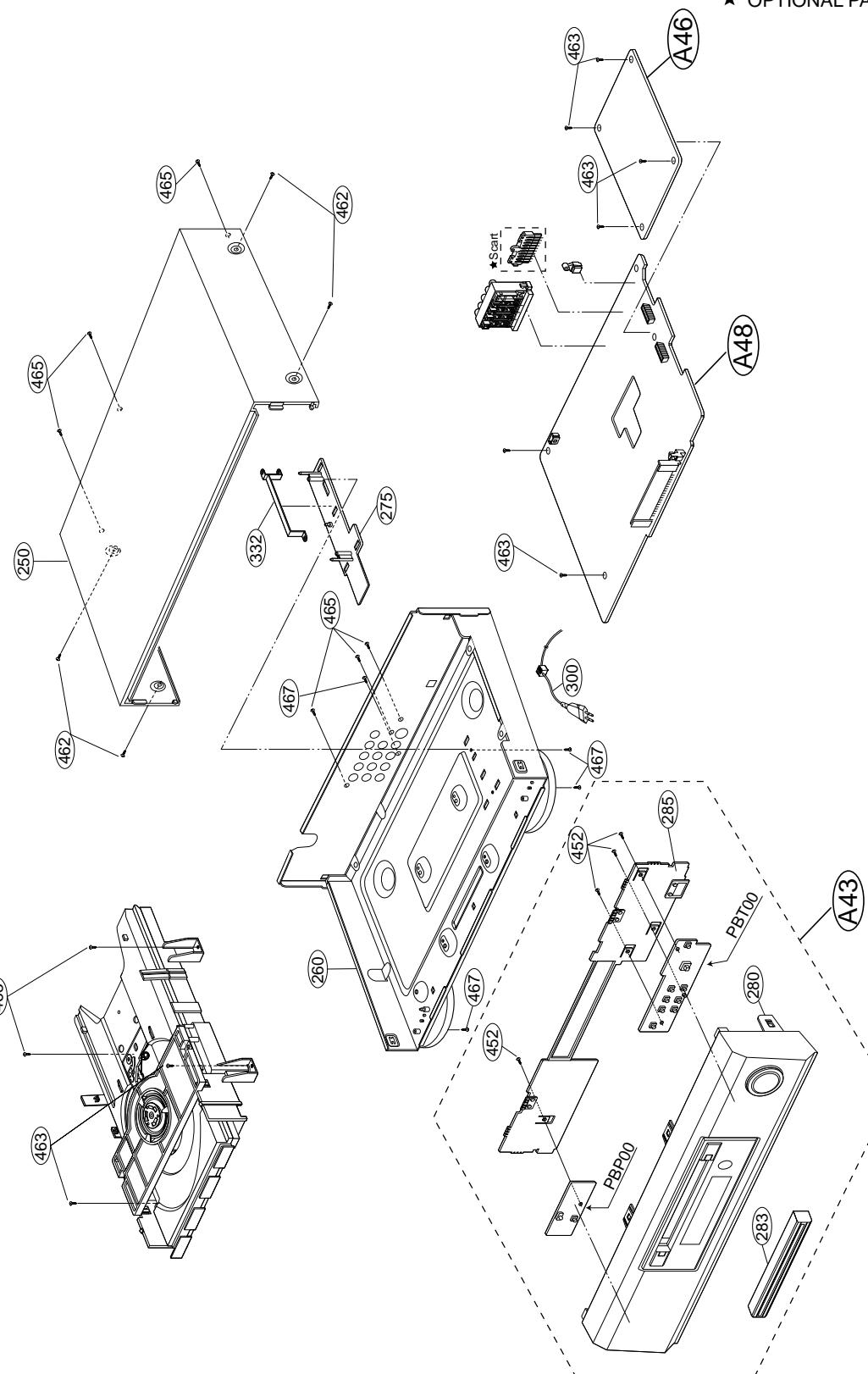
Fig. 2-5

EXPLODED VIEWS

1. Cabinet and Main Frame Section

★ OPTIONAL PART

5



A

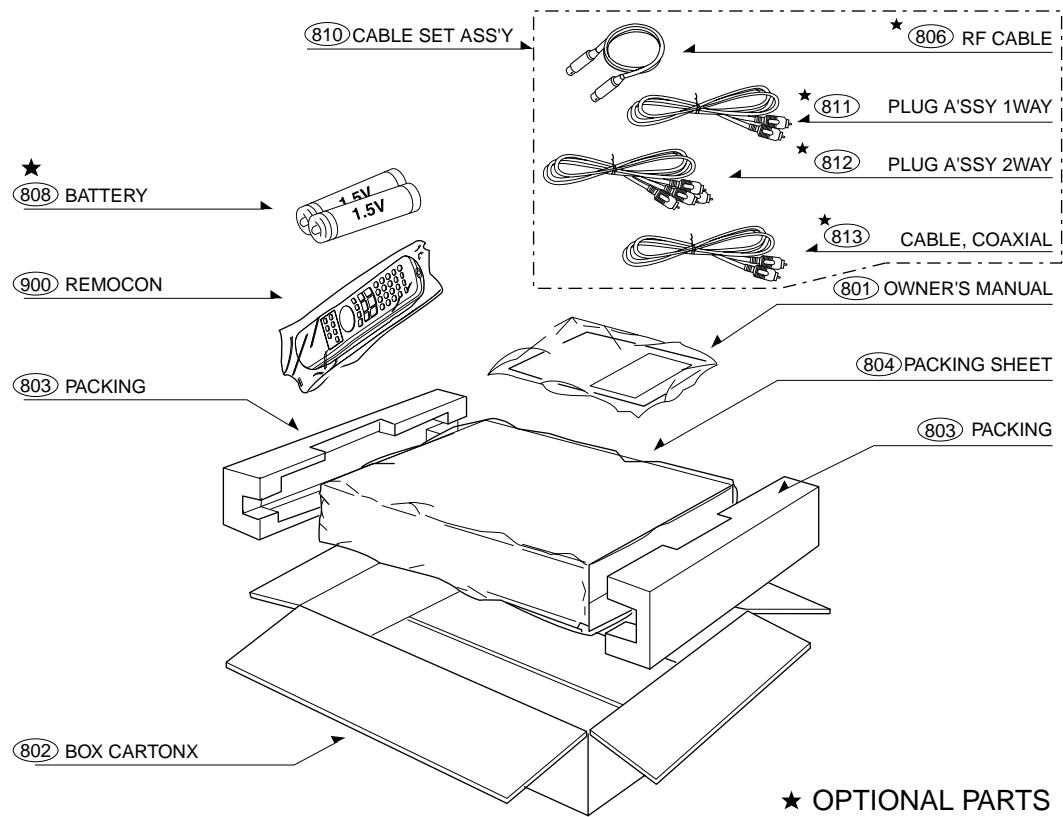
B

C

D

- **Cabinet and Main Frame Section**

2. Packing Accessory Section



★ OPTIONAL PARTS

• Packing Accessory Section Part List

SECTION 3

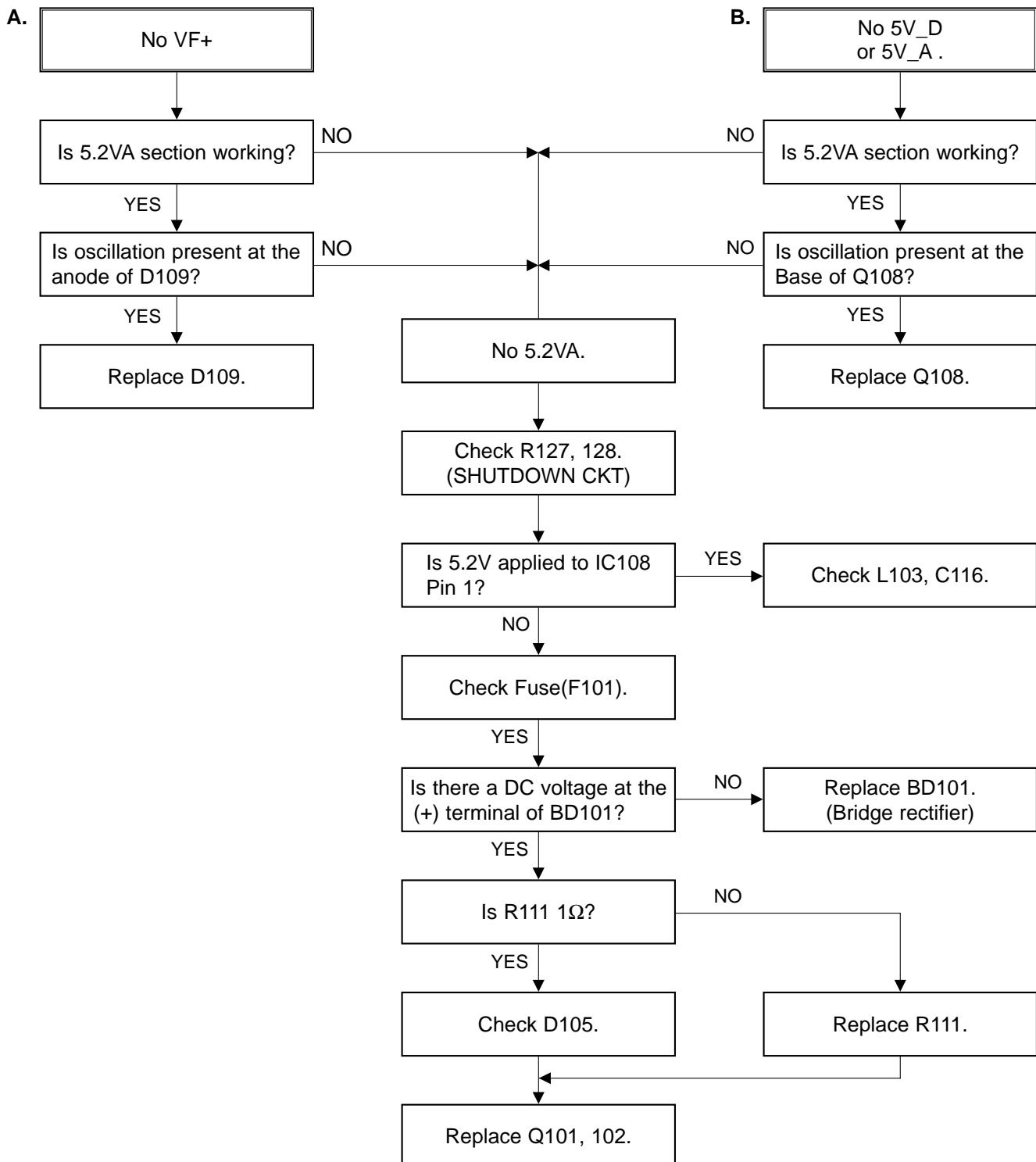
ELECTRICAL

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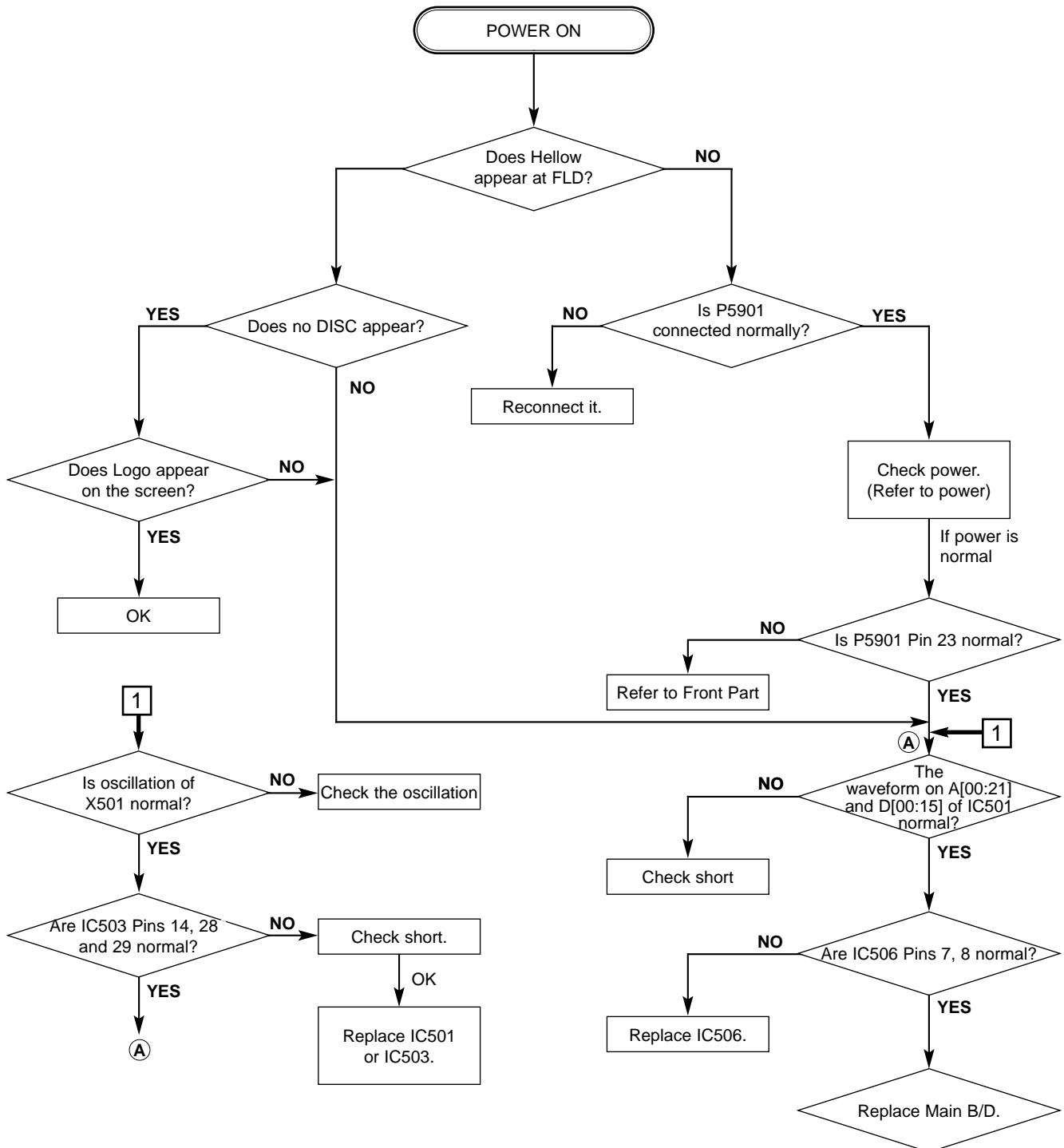
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) Circuit

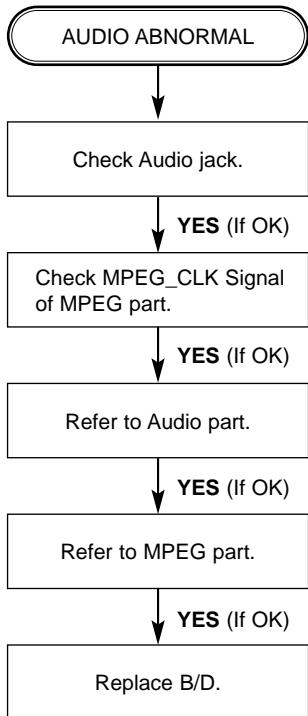


2. µ-COM Circuit

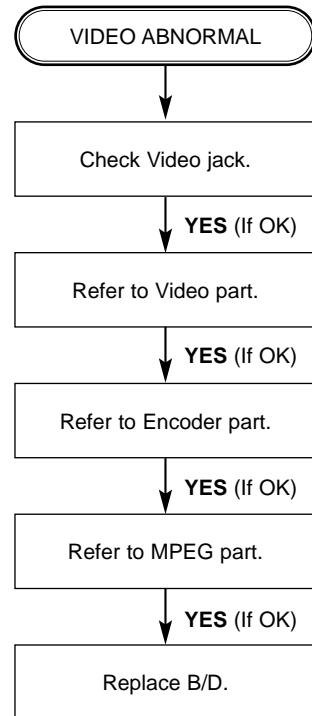
A. No Power



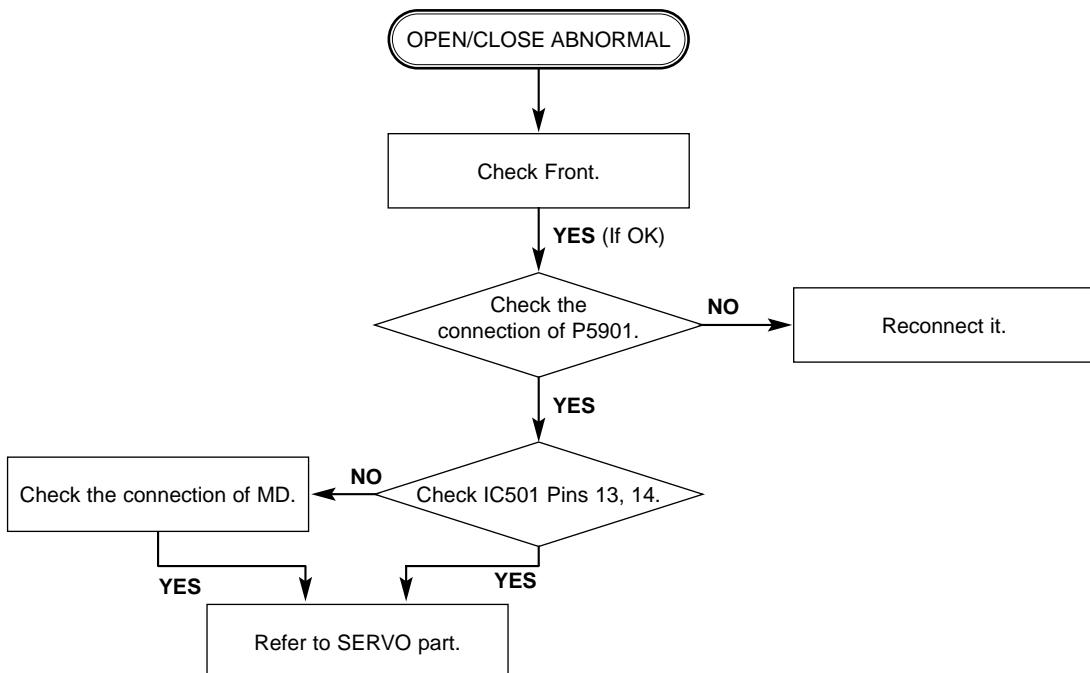
B. Audio abnormal



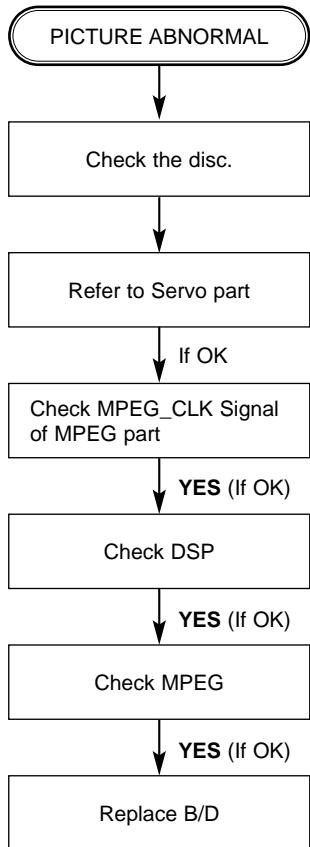
C. Video abnormal



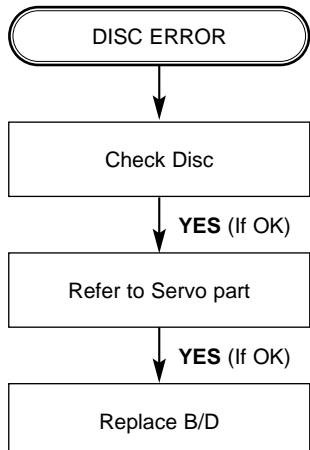
D. Open/Close abnormal



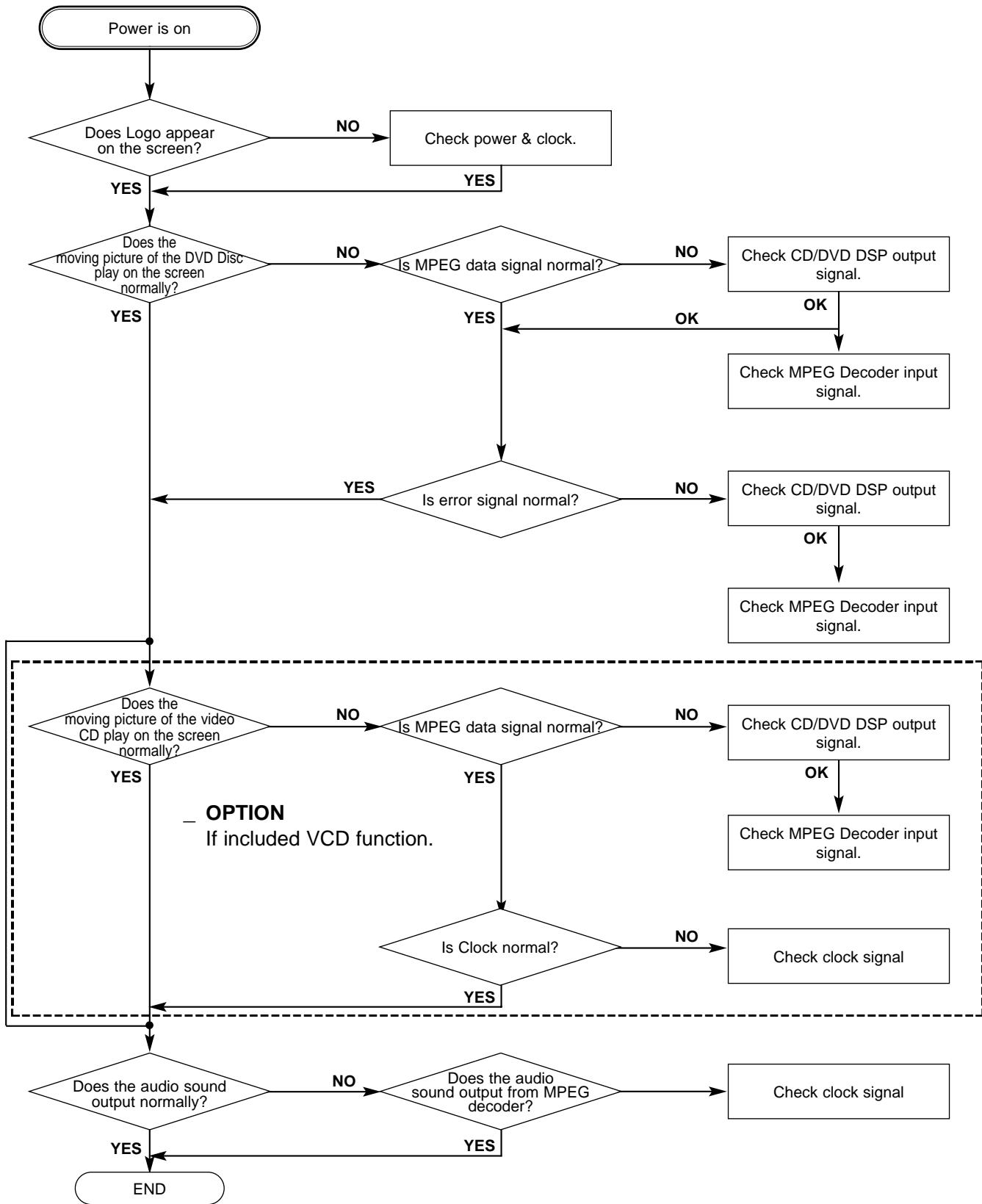
E. Picture abnormal



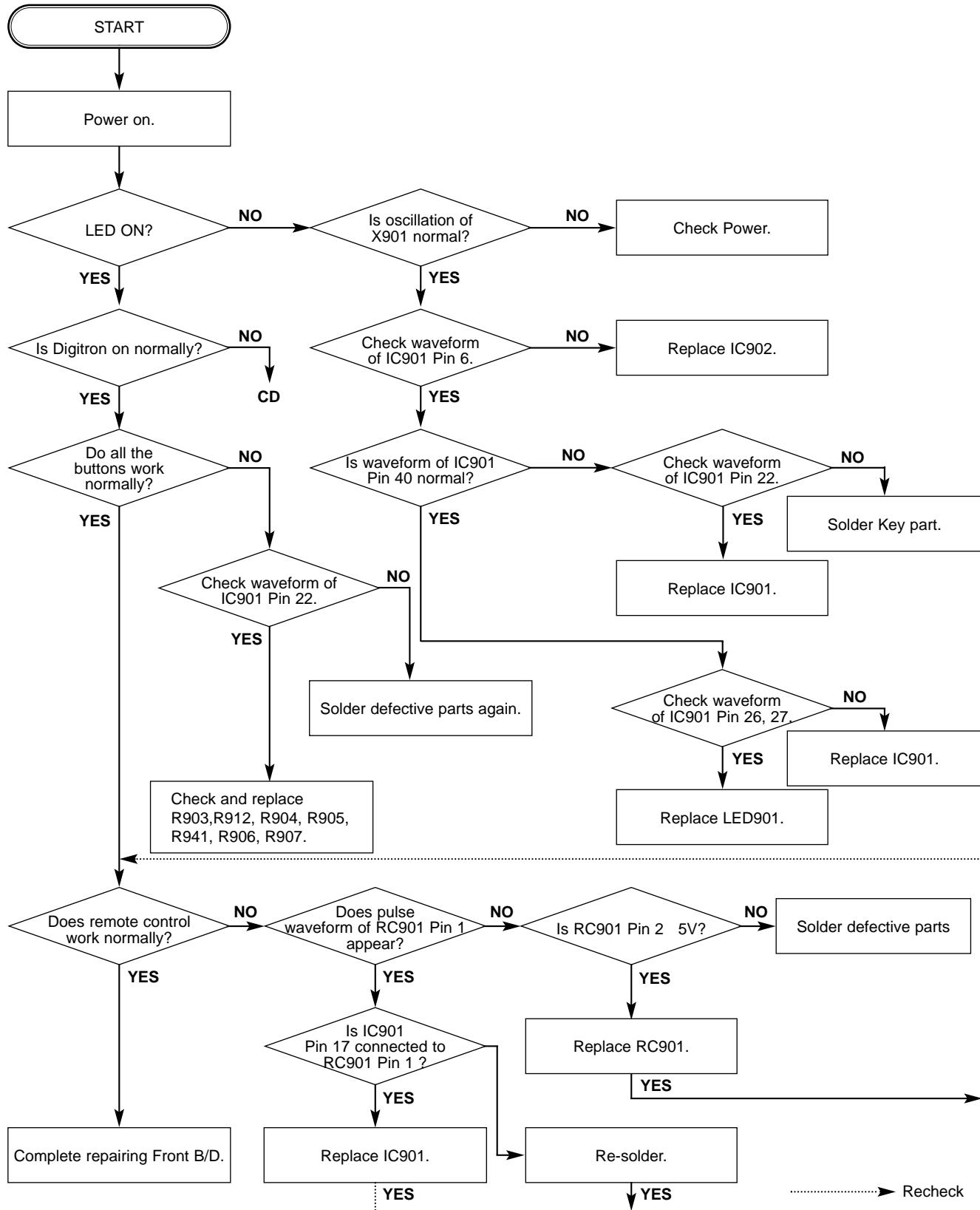
F. Disc Error



3. MPEG Circuit

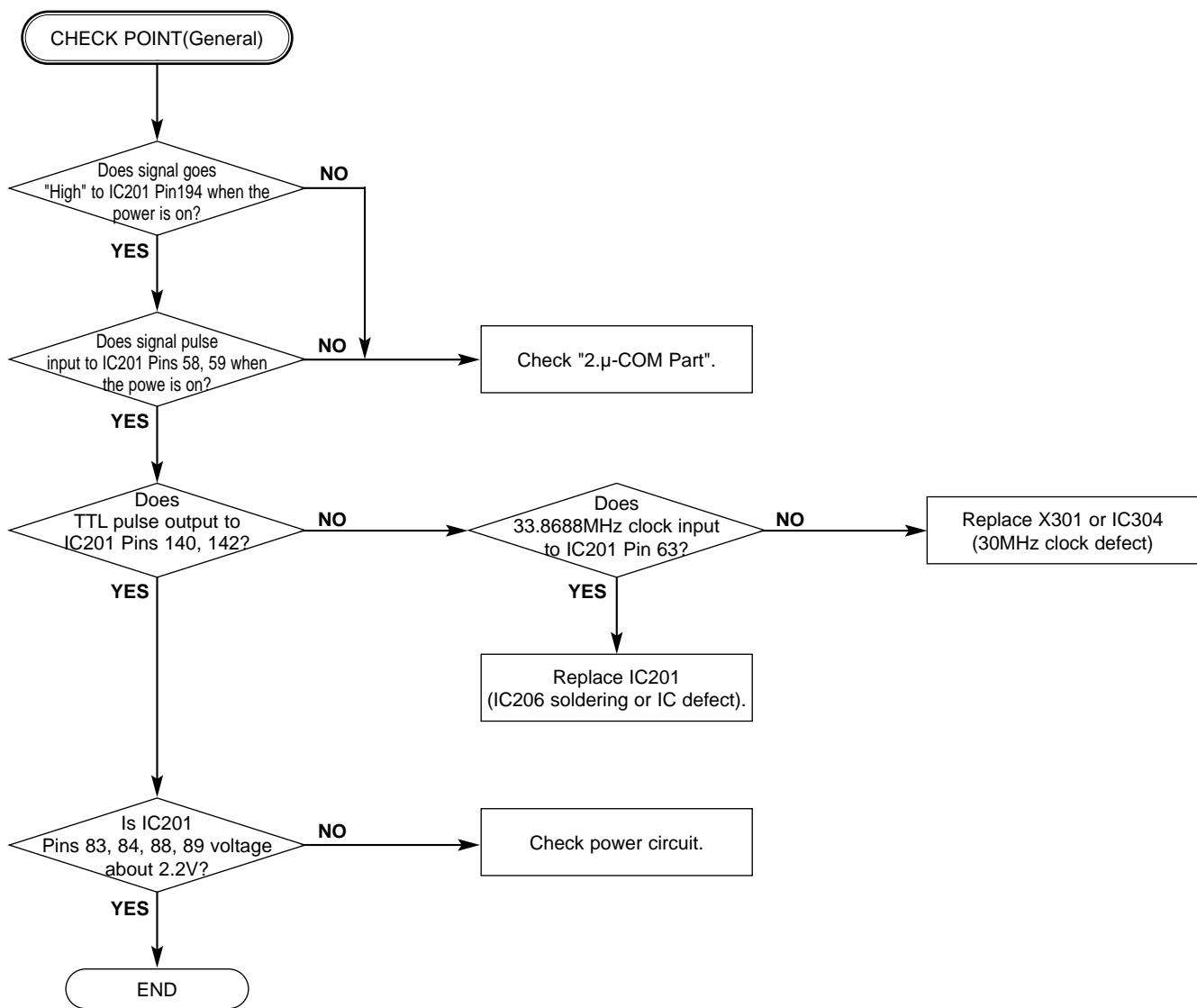


4. Front Circuit (Digitron & key)

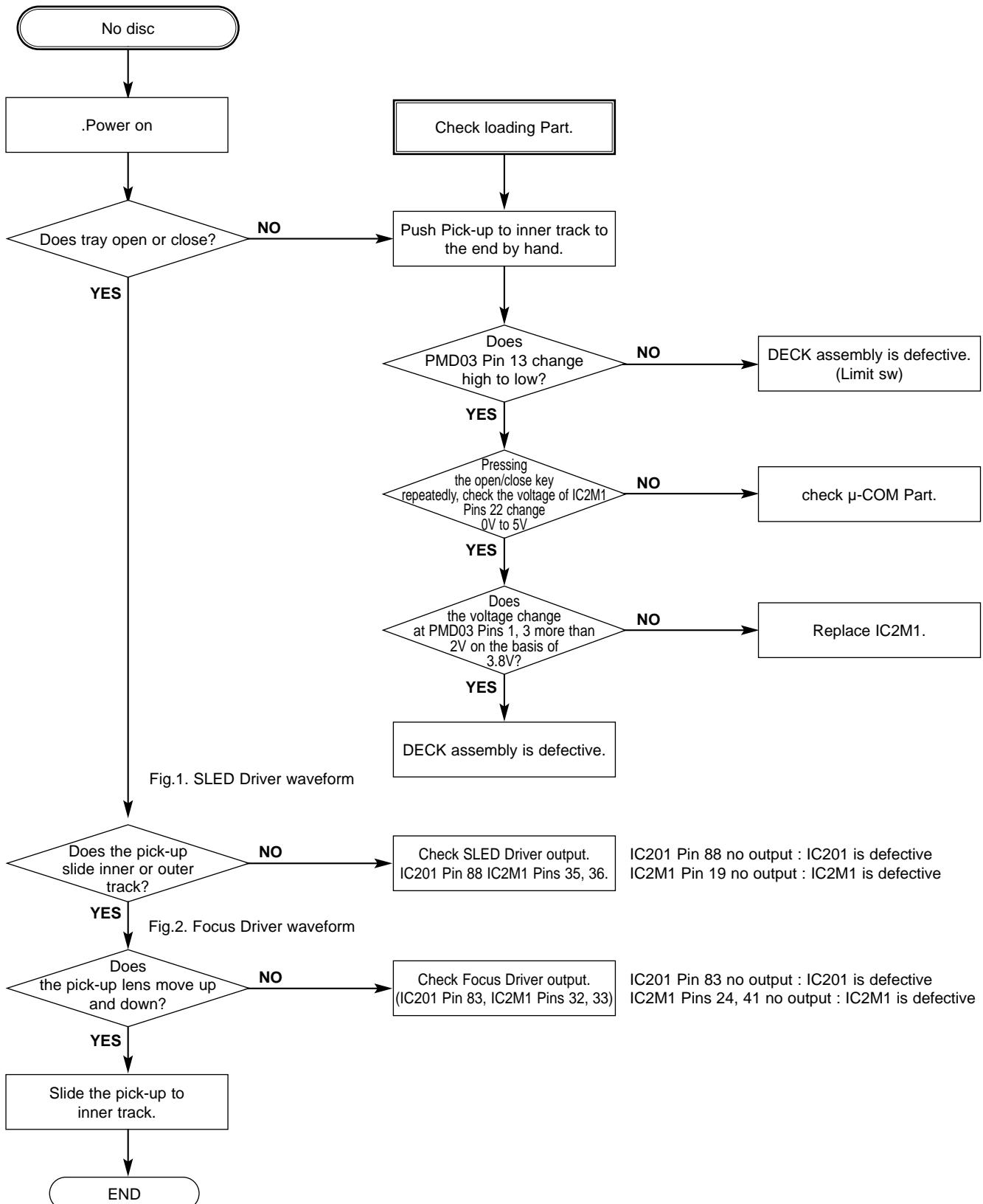


5. RF/Servo Circuit

A.



B.



C.

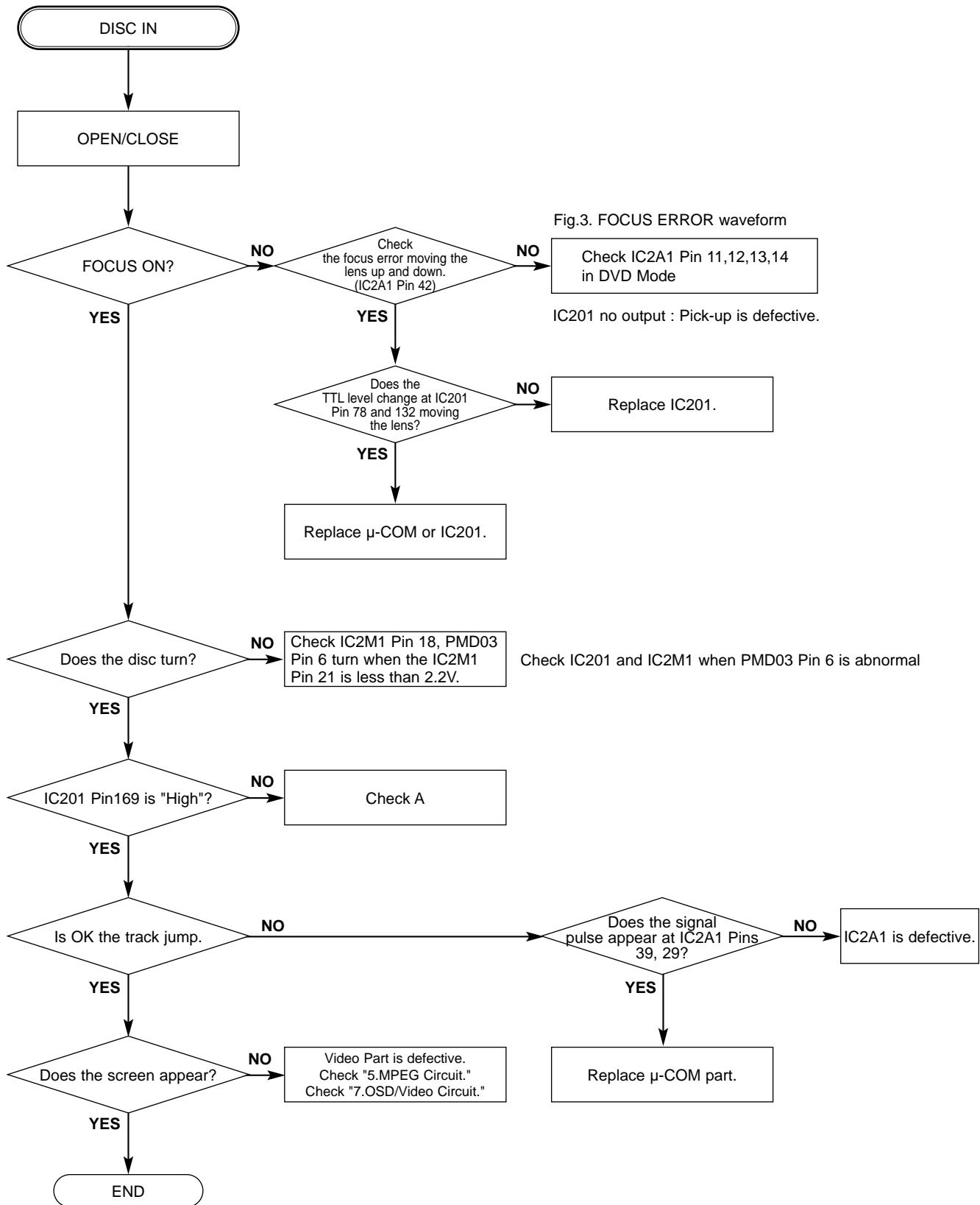


Fig.3. FOCUS ERROR waveform

Check IC2A1 Pin 11,12,13,14
in DVD Mode

IC201 no output : Pick-up is defective.

Replace IC201

Replace μ -COM or IC201.

Does the disc turn? **NO** Check IC201 Pin 18, IC2M03 Pin 6 turn when the IC2M1 Pin 21 is less than 2.2V. Check IC201 and IC2M1 when PMD03 Pin 6 is abnormal

Check A

```

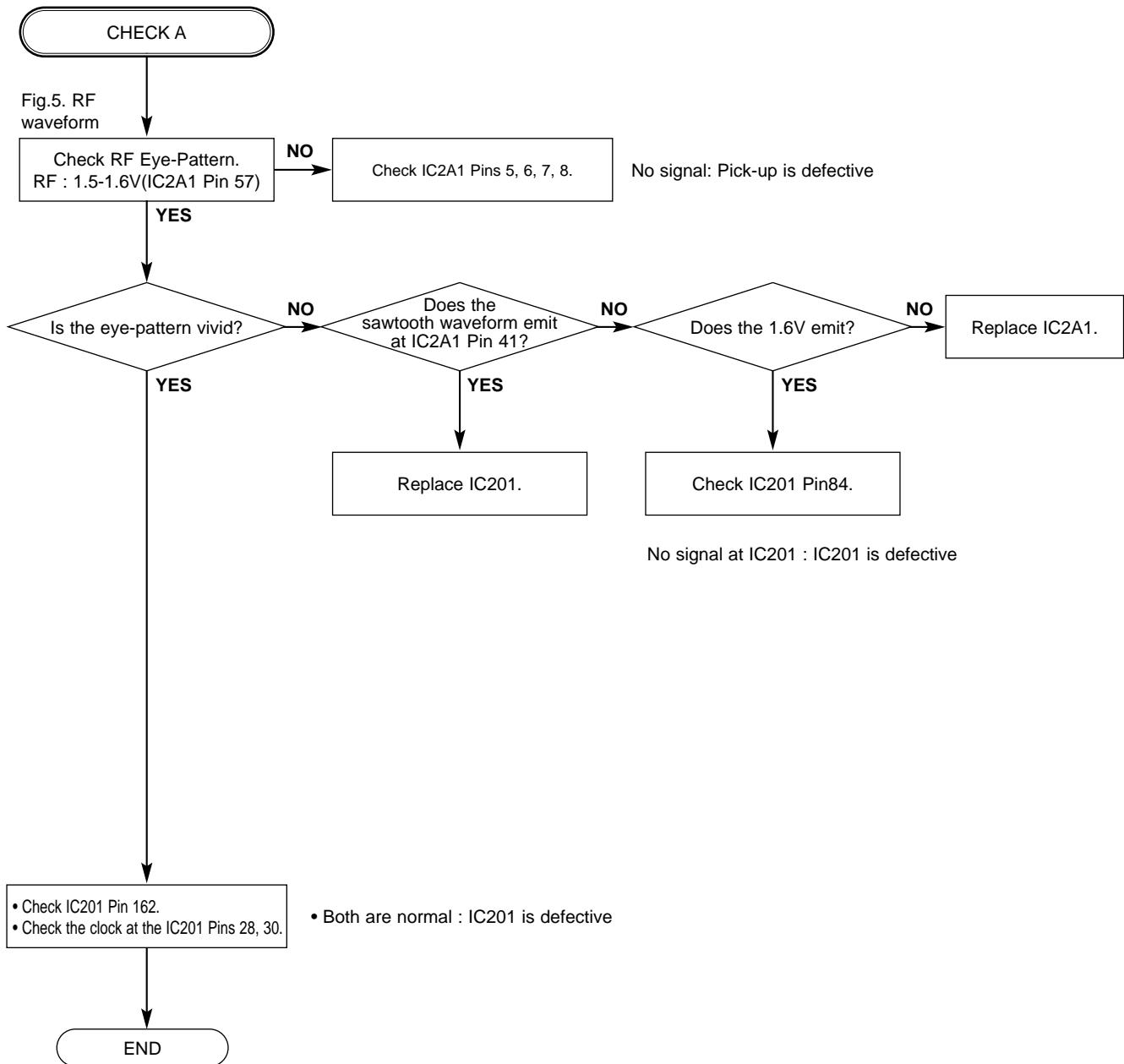
graph LR
    Start(( )) --> Decision{Does the signal pulse appear at IC2A1 Pins 39, 29?}
    Decision -- NO --> Defective[IC2A1 is defective.]
  
```

1

Does the screen appear? **NO** Video Part is defective.
Check "5.MPEG Circuit."
Check "7.OSPA/video Circuit."

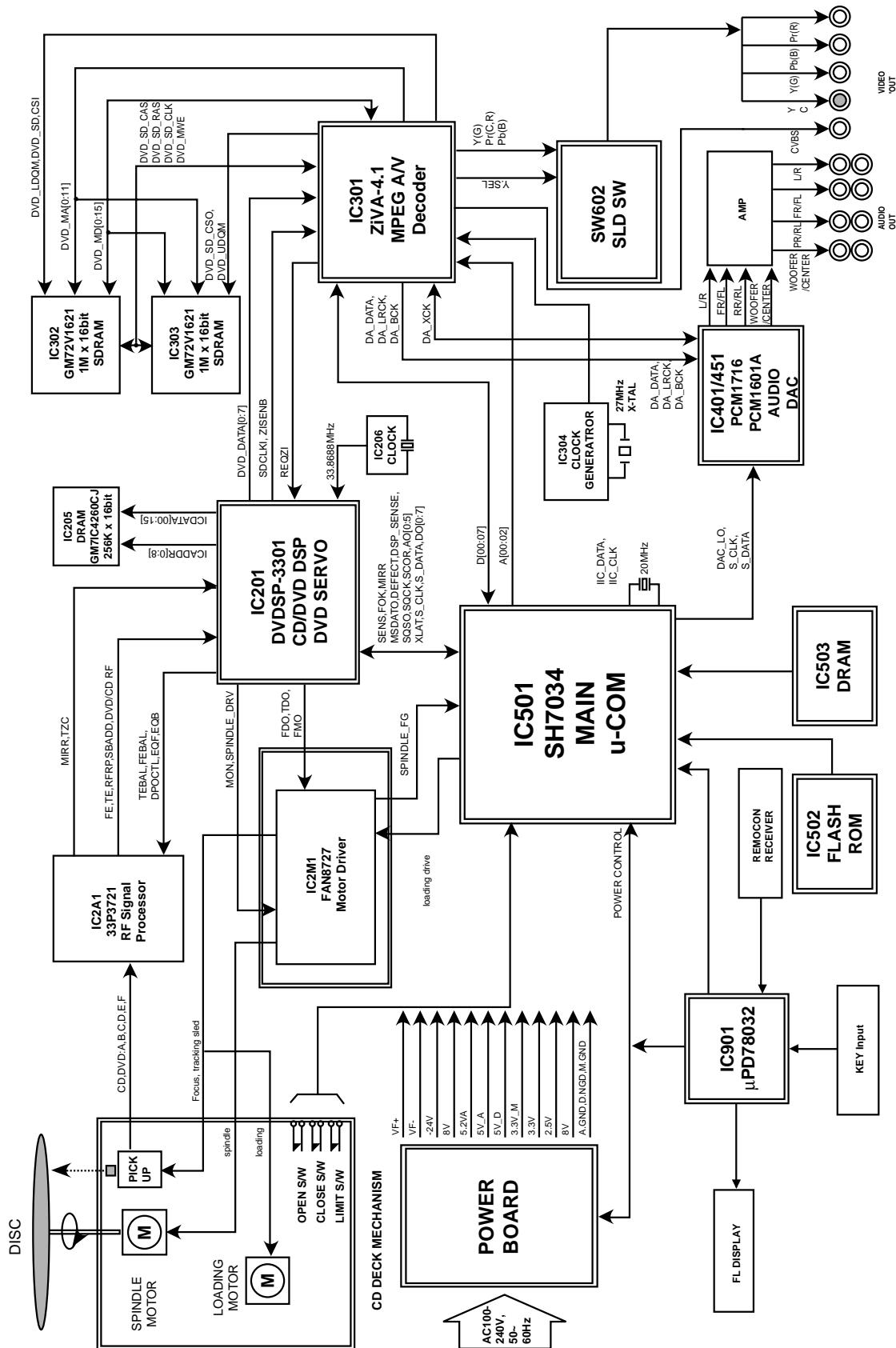
3-10

D.



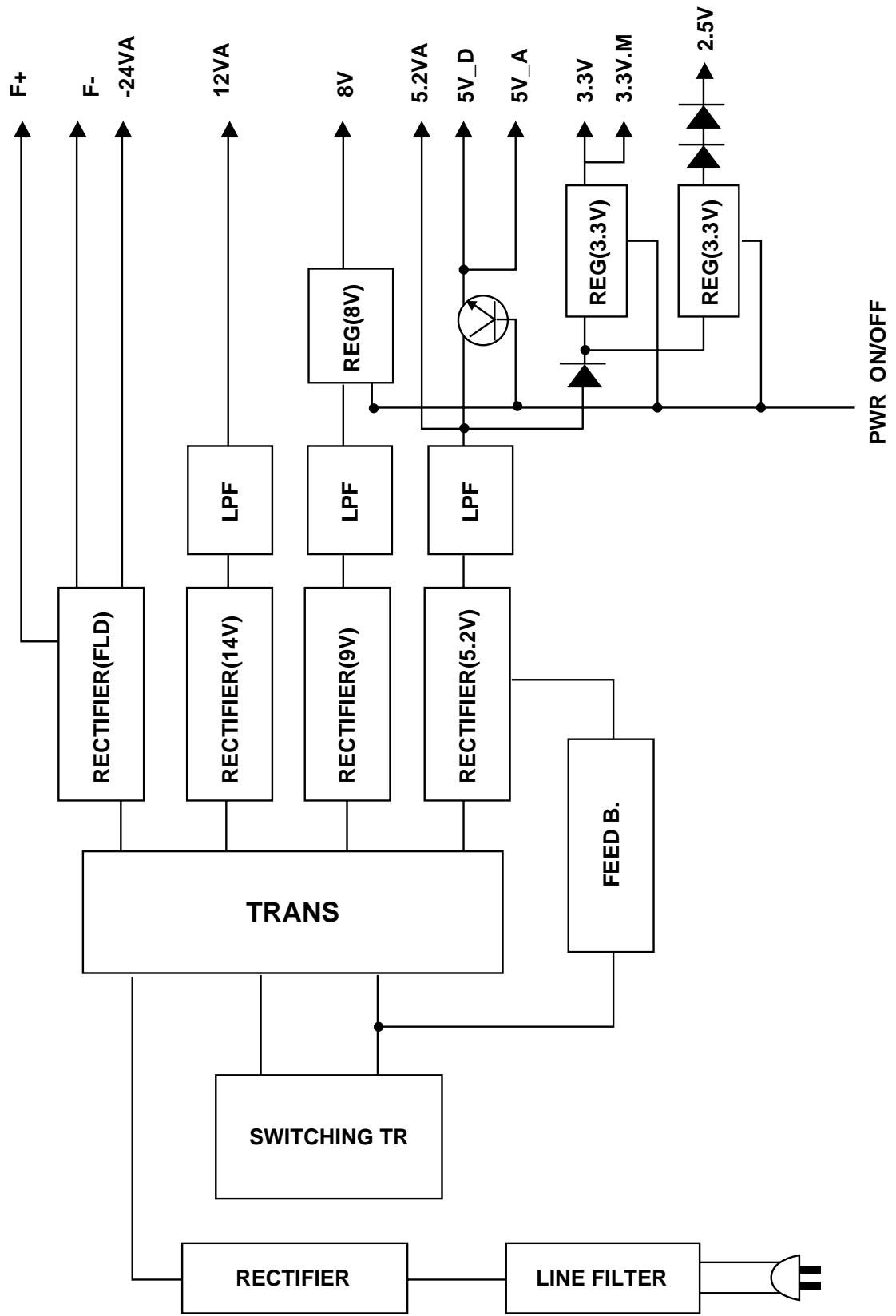
BLOCK DIAGRAMS

1. Overall Block Diagram



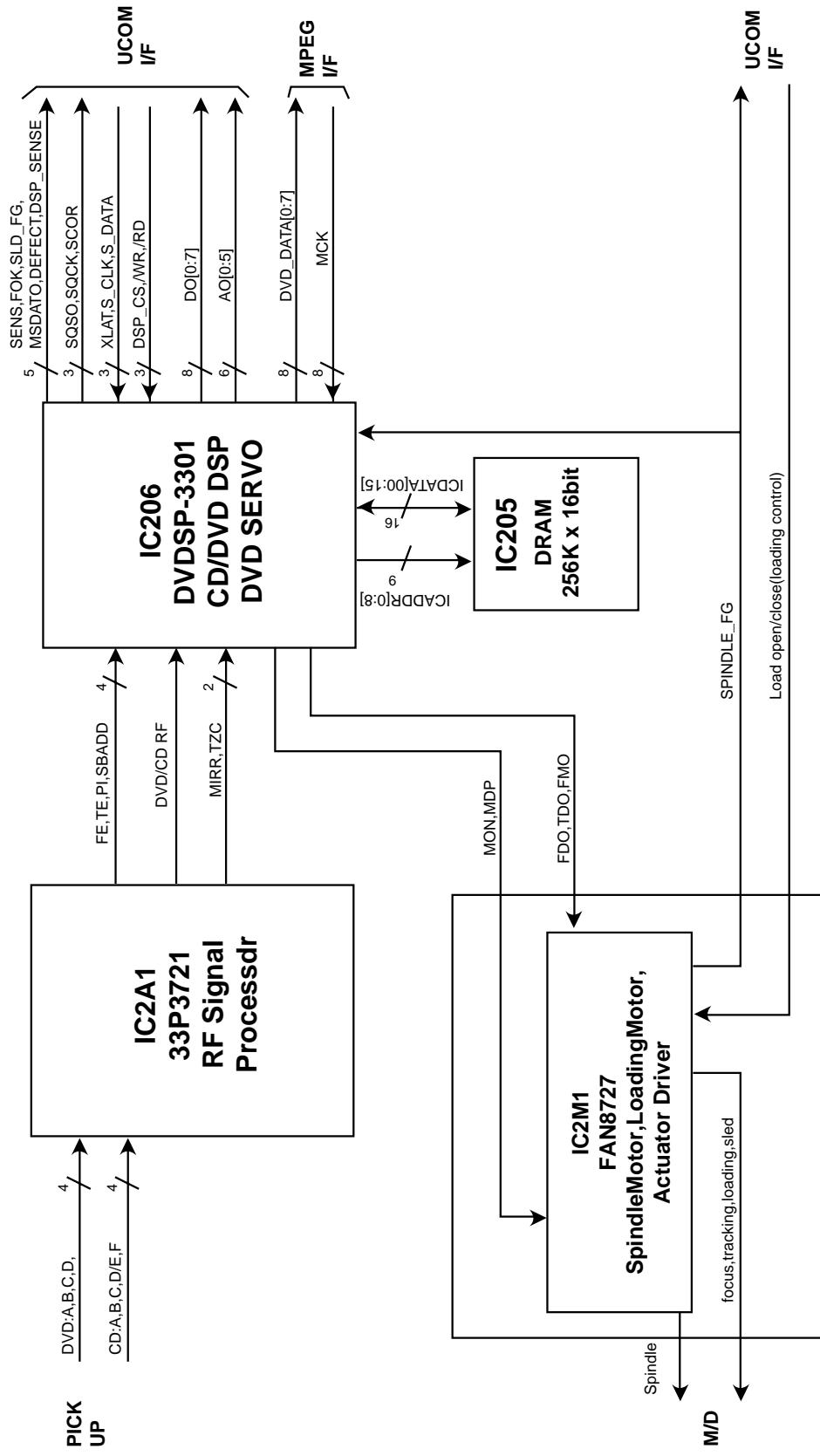
DV4000's

2. Power(SMPS) Block Diagram



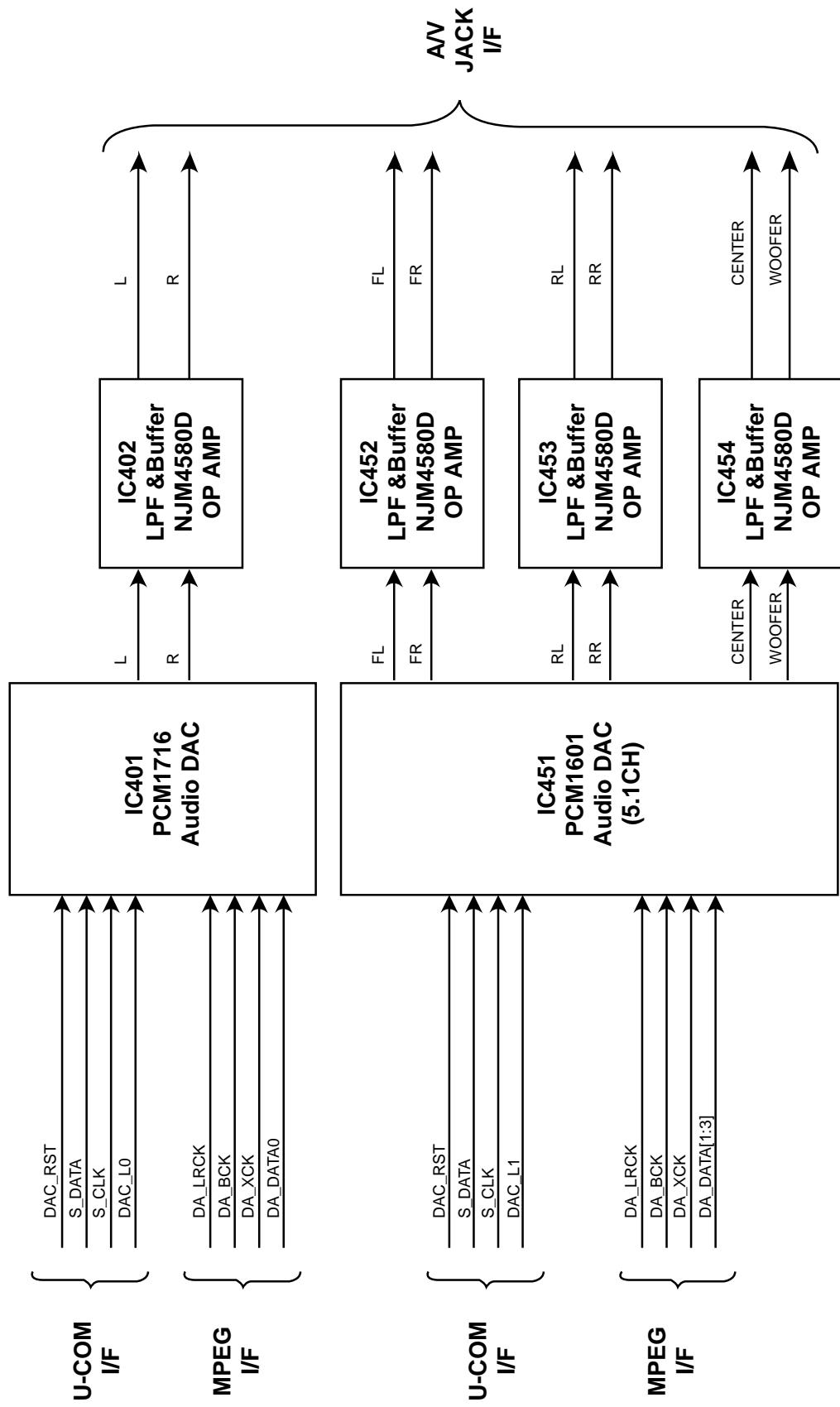
DV4000's

3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram



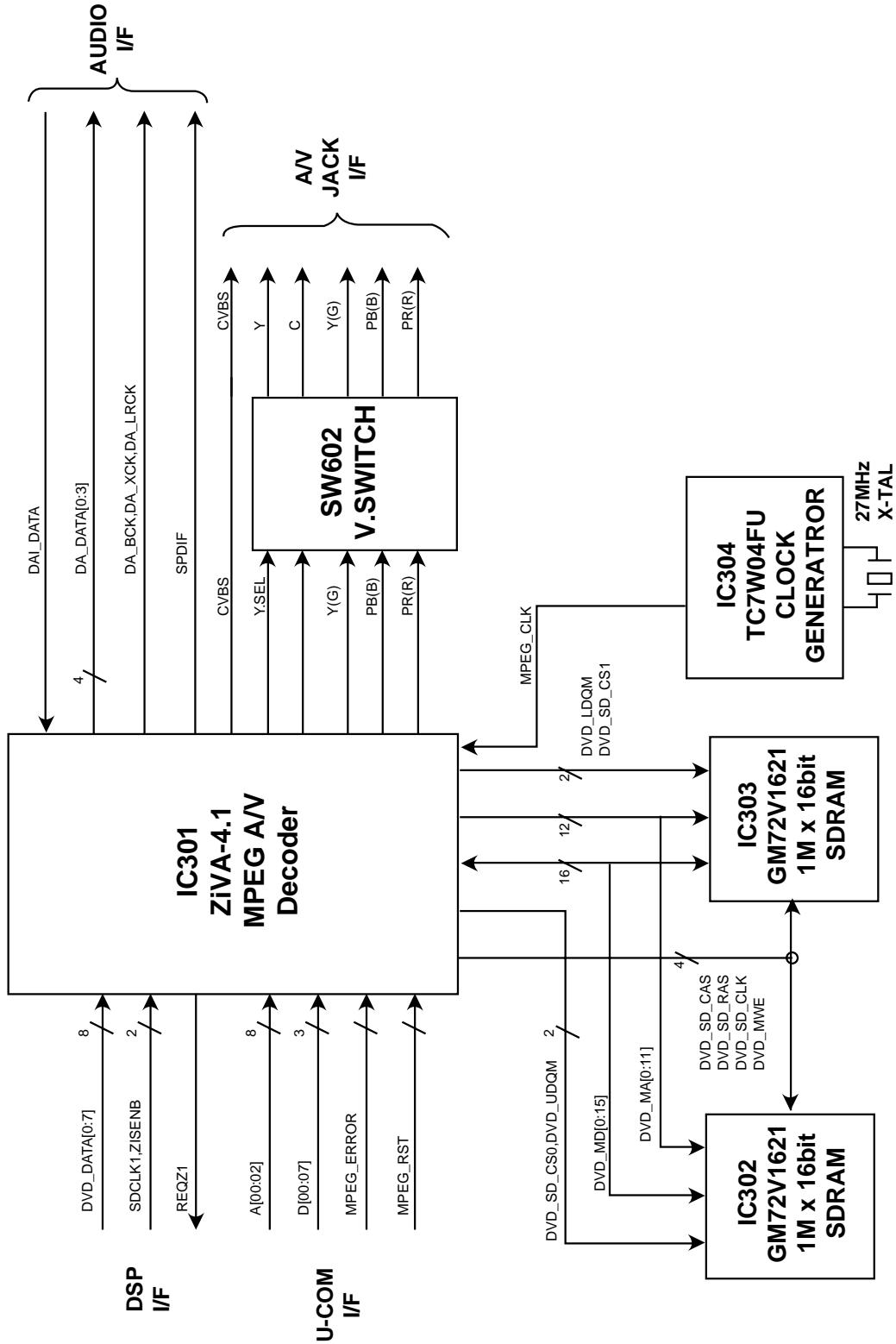
DV4000's

4. Audio Block Diagram



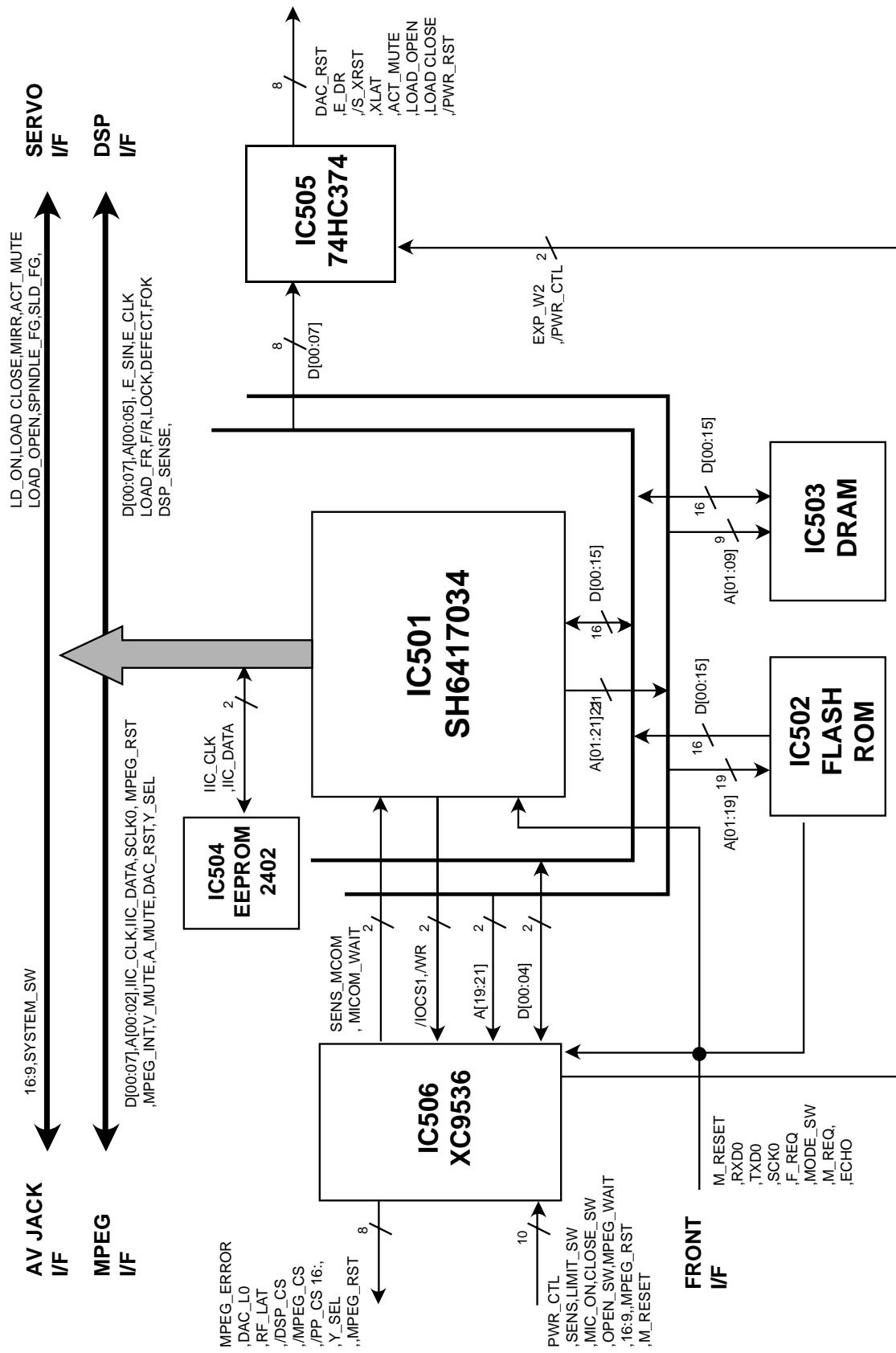
DV4000's

5. MPEG Block Diagram



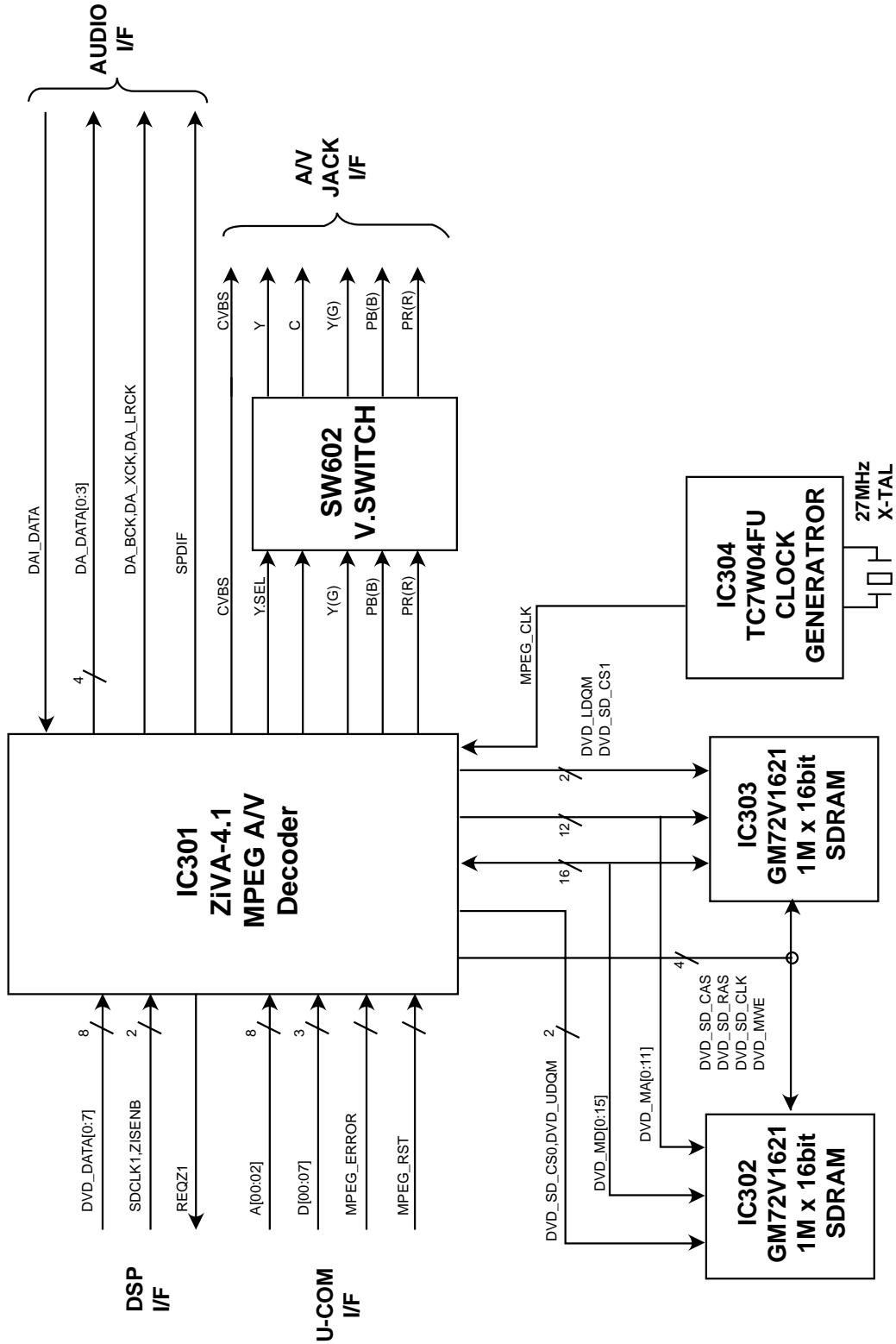
DV4000's

6. μ -COM Block Diagram



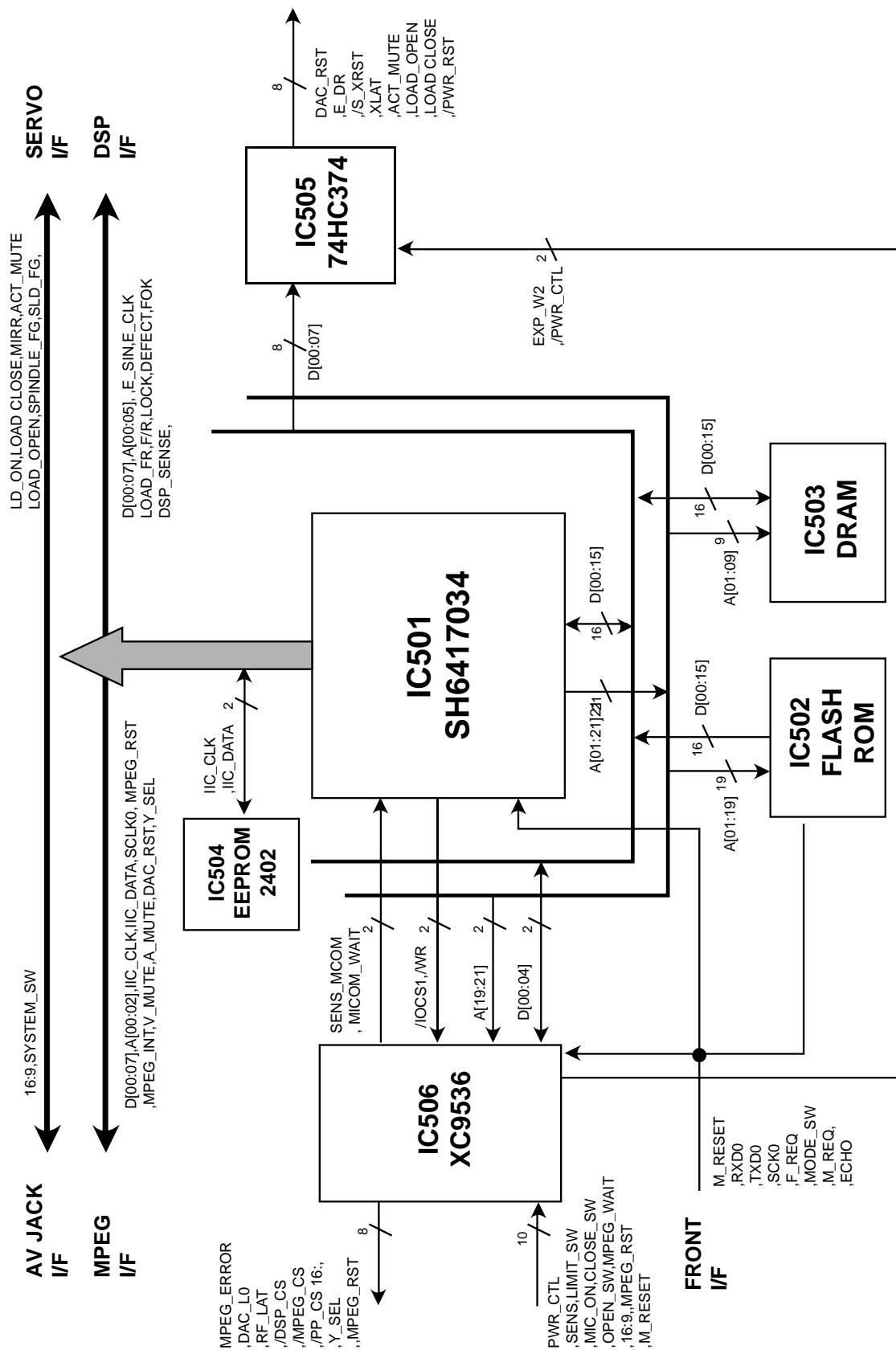
DV4000's

5. MPEG Block Diagram



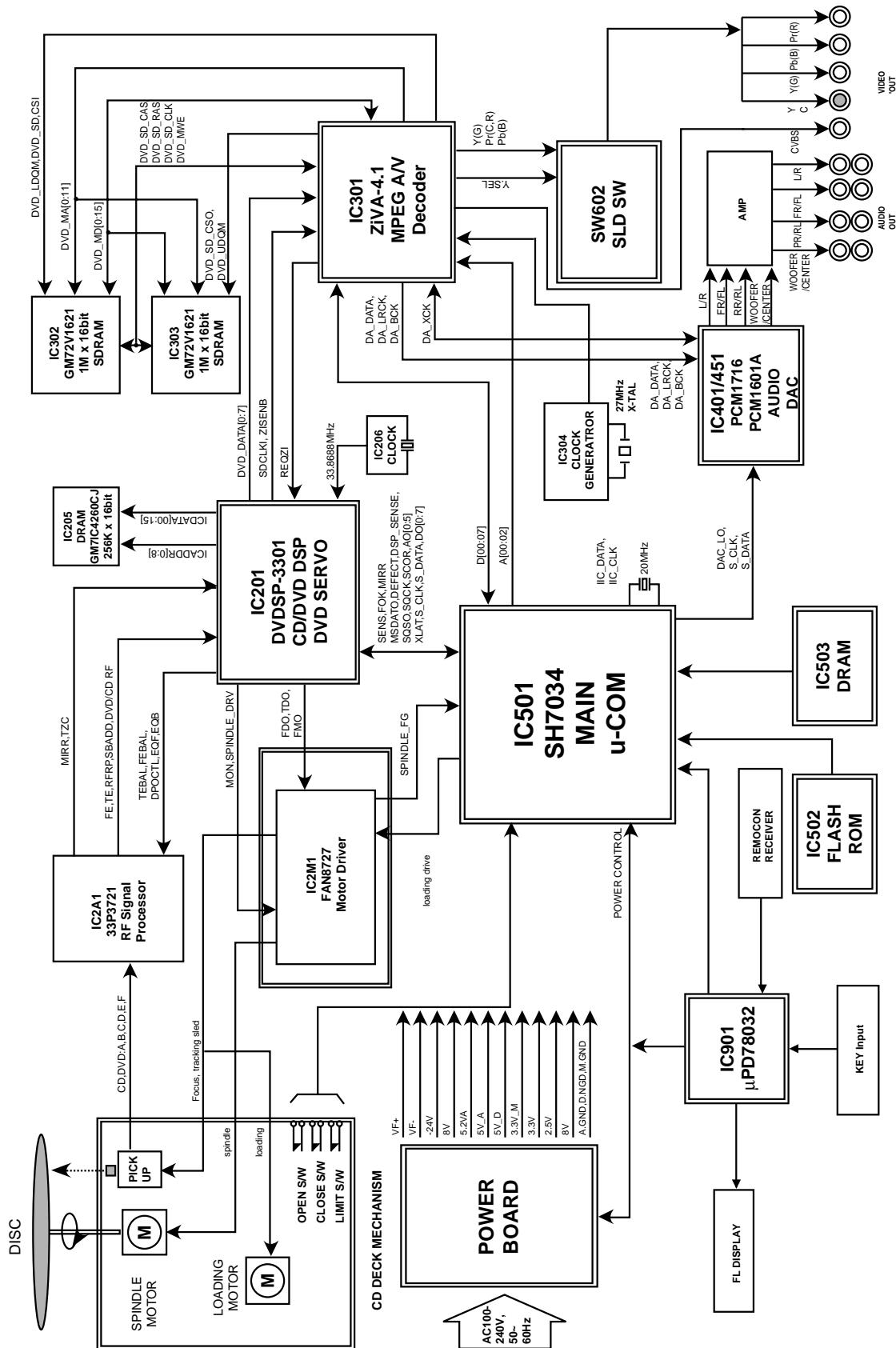
DV4000's

6. μ -COM Block Diagram



BLOCK DIAGRAMS

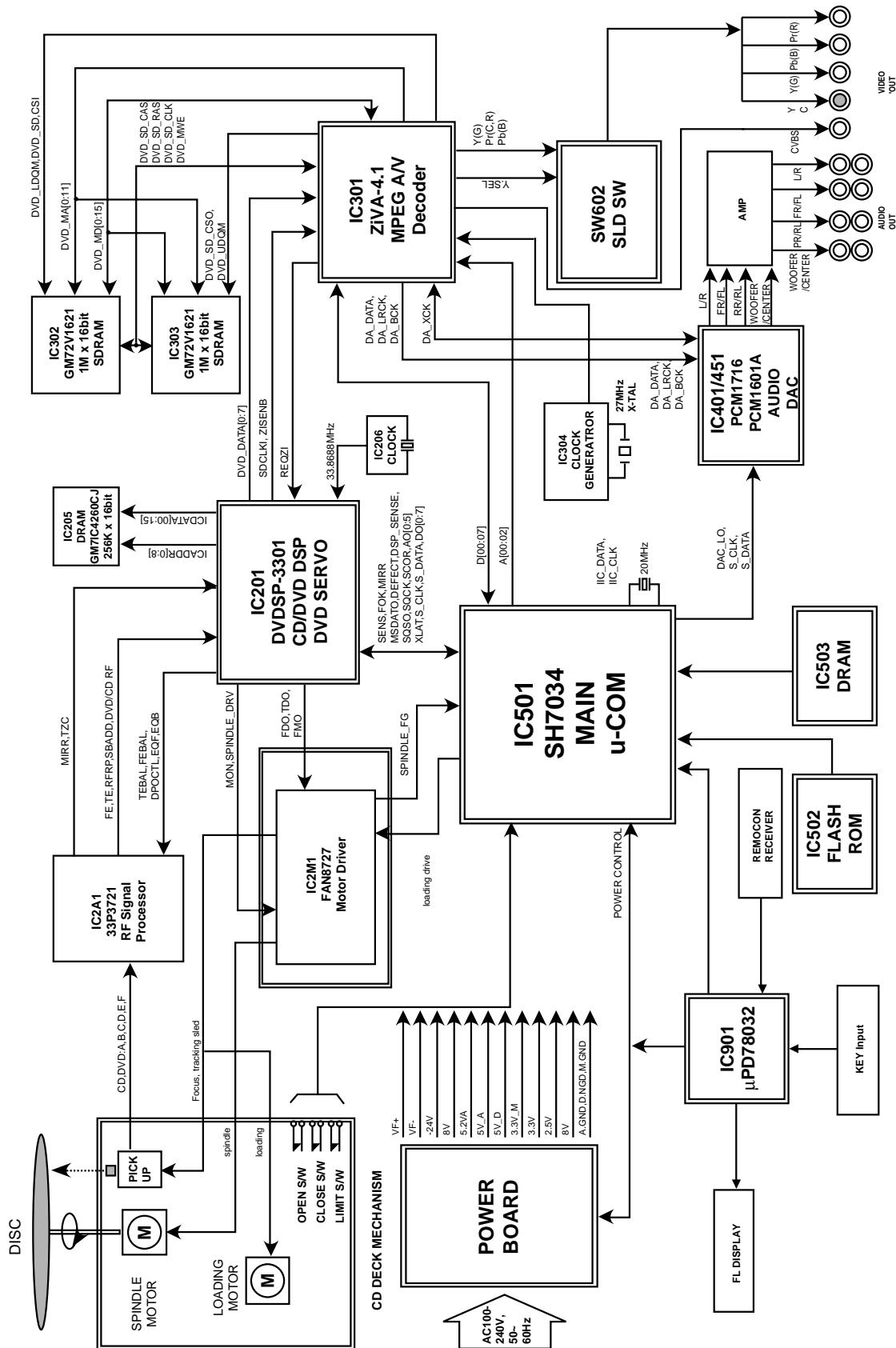
1. Overall Block Diagram



DV4000's

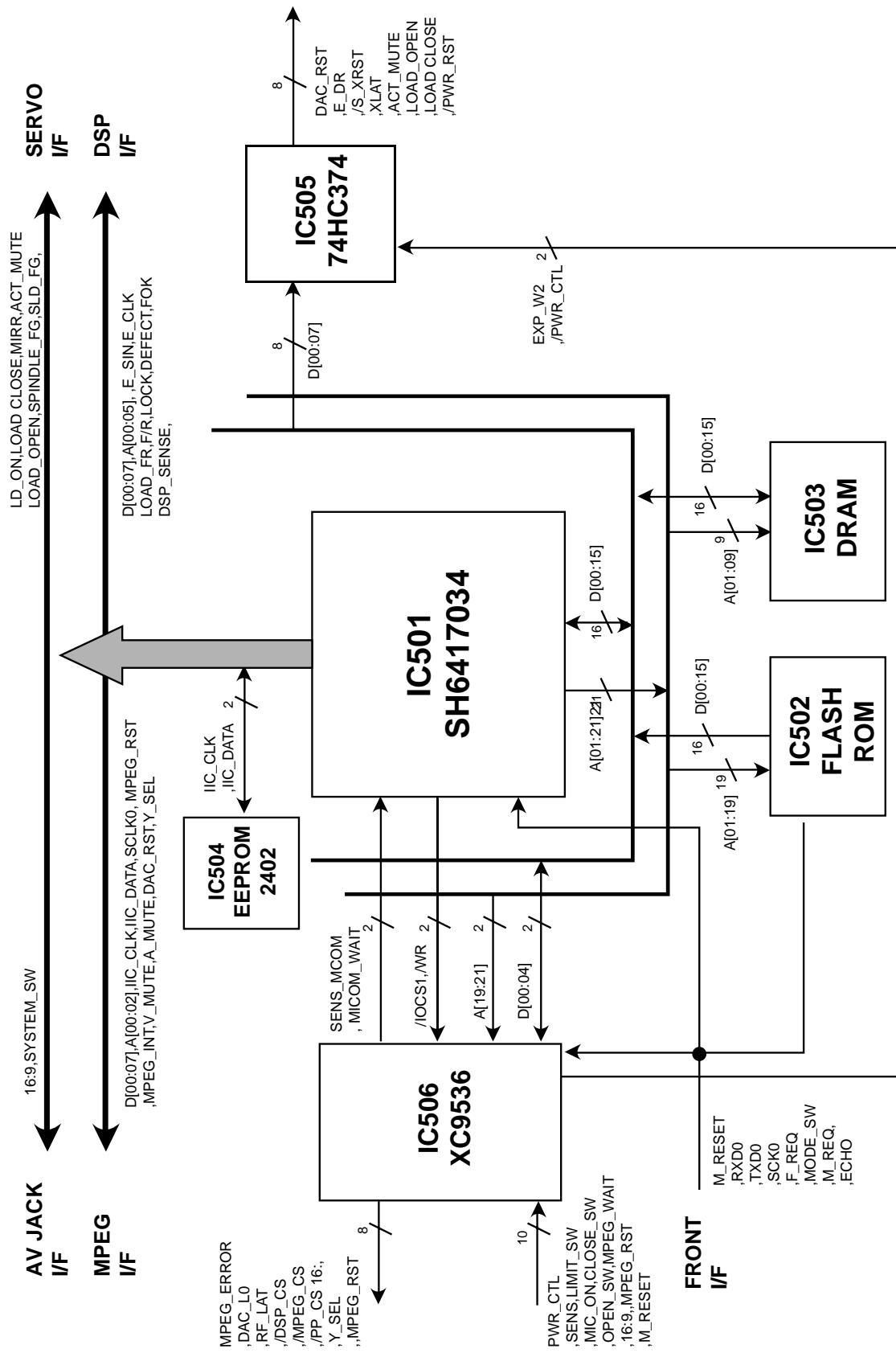
BLOCK DIAGRAMS

1. Overall Block Diagram



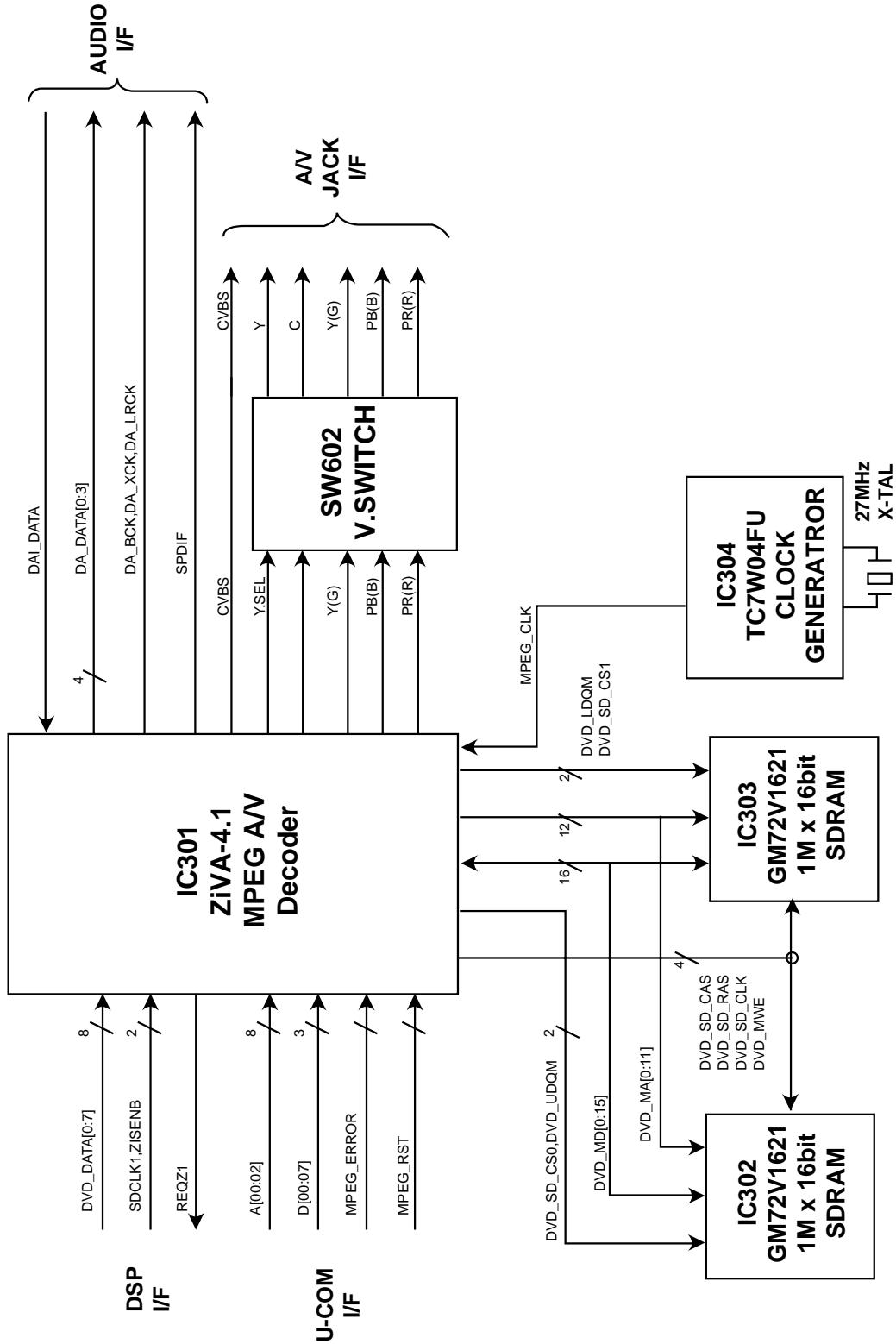
DV4000's

6. μ -COM Block Diagram



DV4000's

5. MPEG Block Diagram



DV4000's

• CIRCUIT VOLTAGE CHART

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| D S P | | |
| IC201 SP3301 | | |
| 1 | 2.00 | 1.30 |
| 2 | 2.00 | 1.30 |
| 3 | 2.00 | 1.30 |
| 4 | 2.00 | 1.30 |
| 5 | 2.00 | 1.30 |
| 6 | 2.00 | 1.30 |
| 7 | 2.00 | 1.30 |
| 8 | 2.00 | 1.30 |
| 9 | 2.00 | 1.30 |
| 10 | 2.00 | 1.30 |
| 11 | 2.00 | 1.30 |
| 12 | 2.00 | 1.30 |
| 13 | 2.00 | 1.30 |
| 14 | 2.00 | 1.30 |
| 15 | 2.00 | 1.30 |
| 16 | 2.00 | 1.30 |
| 17 | 0.00 | 0.00 |
| 18 | 0.00 | 1.50 |
| 19 | 0.00 | 1.50 |
| 20 | 0.00 | 1.50 |
| 21 | 0.00 | 1.50 |
| 22 | 3.10 | 3.00 |
| 23 | 0.00 | 1.50 |
| 24 | 0.00 | 1.50 |
| 25 | 0.00 | 1.50 |
| 26 | 0.00 | 1.50 |
| 27 | 0.00 | 1.50 |
| 28 | 2.10 | 1.50 |
| 29 | 0.00 | 0.00 |
| 30 | 2.10 | 2.00 |
| 31 | 3.10 | 3.00 |
| 32 | 3.10 | 1.50 |
| 33 | 3.10 | 2.50 |
| 34 | 3.10 | 2.50 |
| 35 | 2.10 | 1.30 |
| 36 | 1.10 | 1.80 |
| 37 | 0.00 | 0.00 |
| 38 | 0.00 | 0.00 |
| 39 | 0.00 | 0.00 |
| 40 | 3.10 | 3.00 |
| 41 | 0.00 | 0.00 |
| 42 | 3.10 | 3.00 |
| 43 | 0.00 | 0.00 |
| 44 | 0.00 | 0.00 |
| 45 | 3.10 | 3.00 |
| 46 | 0.00 | 0.00 |
| 47 | 0.00 | 0.00 |
| 48 | 0.00 | 0.00 |
| 49 | 0.00 | 3.00 |
| 50 | 0.00 | 0.00 |
| 51 | 0.00 | 0.00 |
| 52 | 3.10 | 1.80 |
| 53 | 0.00 | 0.00 |

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| D S P | | |
| IC201 SP3301 | | |
| 54 | 3.10 | 3.00 |
| 55 | 3.10 | 3.00 |
| 56 | 0.00 | 0.00 |
| 57 | 0.00 | 3.13 |
| 58 | 5.00 | 4.98 |
| 59 | 0.00 | 0.00 |
| 60 | 0.00 | 0.00 |
| 61 | 5.00 | 4.98 |
| 62 | 0.00 | 0.00 |
| 63 | 2.10 | 2.10 |
| 64 | 0.00 | 0.00 |
| 65 | 3.10 | 3.00 |
| 66 | 0.00 | 0.00 |
| 67 | 3.10 | 3.12 |
| 68 | 0.00 | 0.00 |
| 69 | 0.00 | 0.20 |
| 70 | 0.00 | 0.00 |
| 71 | 3.10 | 3.10 |
| 72 | 0.00 | 0.20 |
| 73 | 0.00 | 0.00 |
| 74 | 3.10 | 3.10 |
| 75 | 0.00 | 0.00 |
| 76 | 0.00 | 0.00 |
| 77 | 0.00 | 0.00 |
| 78 | 0.00 | 2.30 |
| 79 | 3.10 | 3.10 |
| 80 | 5.00 | 5.00 |
| 81 | 0.00 | 0.00 |
| 82 | 5.00 | 5.00 |
| 83 | 2.10 | 2.00 |
| 84 | 2.10 | 2.10 |
| 85 | 3.10 | 3.10 |
| 86 | 1.40 | 1.40 |
| 87 | 0.00 | 0.00 |
| 88 | 2.10 | 2.00 |
| 89 | 2.10 | 2.00 |
| 90 | 0.00 | 0.00 |
| 91 | 1.50 | 1.55 |
| 92 | 3.10 | 3.12 |
| 93 | 1.60 | 1.55 |
| 94 | 1.10 | 1.11 |
| 95 | 2.00 | 2.00 |
| 96 | 1.55 | 1.55 |
| 97 | 0.00 | 0.00 |
| 98 | 1.55 | 1.55 |
| 99 | 1.56 | 2.15 |
| 100 | 3.10 | 3.10 |
| 101 | 1.55 | 1.58 |
| 102 | 1.55 | 1.55 |
| 103 | 1.62 | 1.64 |
| 104 | 1.55 | 1.55 |
| 105 | 1.50 | 1.50 |
| 106 | 0.00 | 0.00 |
| 107 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 |

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| D S P | | |
| IC201 SP3301 | | |
| 109 | 0.00 | 0.00 |
| 110 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 |
| 112 | 0.00 | 0.00 |
| 113 | 3.40 | 4.70 |
| 114 | 5.00 | 5.00 |
| 115 | 1.50 | 1.50 |
| 116 | 1.50 | 1.53 |
| 117 | 3.10 | 3.10 |
| 118 | 0.00 | 0.00 |
| 119 | 0.00 | 0.00 |
| 120 | 3.50 | 4.20 |
| 121 | 3.25 | 4.20 |
| 122 | 3.45 | 4.30 |
| 123 | 3.50 | 4.30 |
| 124 | 3.50 | 4.30 |
| 125 | 3.50 | 4.50 |
| 126 | 0.00 | 0.00 |
| 127 | 3.60 | 2.60 |
| 128 | 0.00 | 0.00 |
| 129 | 3.60 | 2.60 |
| 130 | 0.00 | 0.20 |
| 131 | 0.00 | 0.00 |
| 132 | 0.00 | 3.10 |
| 133 | 3.10 | 3.10 |
| 134 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 |
| 136 | 3.10 | 2.20 |
| 137 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 |
| 139 | 3.10 | 3.10 |
| 140 | 3.00 | 3.10 |
| 141 | 0.00 | 0.00 |
| 142 | 3.00 | 3.00 |
| 143 | 3.10 | 3.10 |
| 144 | 3.10 | 3.10 |
| 145 | 3.10 | 0.90 |
| 146 | 3.50 | 4.50 |
| 147 | 0.00 | 0.00 |
| 148 | 0.00 | 0.00 |
| 149 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 |
| 151 | 0.00 | 0.00 |
| 152 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 |
| 154 | 0.00 | 0.00 |
| 155 | 1.55 | 1.55 |
| 156 | 3.10 | 3.10 |
| 157 | 1.50 | 1.50 |
| 158 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 |
| 160 | 2.60 | 2.60 |
| 161 | 3.10 | 3.10 |
| 162 | 2.00 | 2.00 |
| 163 | 2.00 | 2.00 |

| MODE PIN NO. | EE | PLAY |
|--------------------------|------|------|
| D S P | | |
| IC201 SP3301 | | |
| 164 | 1.40 | 1.40 |
| 165 | 3.20 | 0.00 |
| 166 | 1.60 | 1.75 |
| 167 | 0.00 | 0.00 |
| 168 | 0.00 | 3.10 |
| 169 | 0.00 | 3.10 |
| 170 | 5.00 | 2.50 |
| 171 | 0.00 | 2.50 |
| 172 | 3.10 | 0.00 |
| 173 | 3.10 | 3.10 |
| 174 | 3.10 | 3.10 |
| 175 | 3.10 | 3.10 |
| 176 | 2.53 | 1.30 |
| 177 | 4.24 | 4.97 |
| 178 | 5.00 | 5.00 |
| 179 | 2.70 | 0.20 |
| 180 | 3.26 | 2.30 |
| 181 | 3.10 | 2.50 |
| 182 | 2.40 | 2.50 |
| 183 | 3.66 | 2.80 |
| 184 | 2.40 | 2.50 |
| 185 | 0.00 | 0.00 |
| 186 | 2.26 | 2.00 |
| 187 | 3.10 | 3.10 |
| 188 | 2.20 | 2.40 |
| 189 | 1.75 | 1.90 |
| 190 | 2.20 | 1.80 |
| 191 | 1.80 | 1.80 |
| 192 | 2.20 | 2.20 |
| 193 | 1.25 | 1.30 |
| 194 | 1.00 | 1.10 |
| 195 | 5.00 | 5.00 |
| 196 | 0.00 | 2.25 |
| 197 | 0.00 | 1.60 |
| 198 | 0.00 | 1.50 |
| 199 | 0.00 | 1.50 |
| 200 | 0.00 | 1.50 |
| 201 | 0.00 | 1.50 |
| 202 | 0.00 | 1.50 |
| 203 | 0.00 | 1.50 |
| 204 | 0.00 | 1.50 |
| 205 | 3.10 | 2.60 |
| 206 | 1.50 | 1.50 |
| 207 | 3.10 | 3.10 |
| 208 | 3.10 | 3.10 |
| IC205 GM71C4260CJ | | |
| 1 | 3.16 | 3.18 |
| 2 | 2.01 | 2.07 |
| 3 | 2.01 | 2.07 |
| 4 | 2.02 | 2.07 |
| 5 | 2.10 | 2.10 |
| 6 | 2.20 | 2.20 |
| 7</ | | |

| MODE PIN NO. | EE | PLAY |
|--------------|------|------|
| 138 | 0.00 | 0.00 |
| 139 | 0.54 | 1.00 |
| 140 | 3.10 | 3.10 |
| 141 | 3.10 | 3.10 |
| 142 | 0.00 | 0.00 |
| 143 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 |
| 145 | 0.67 | 1.40 |
| 146 | 3.10 | 3.10 |
| 147 | 3.10 | 3.10 |
| 148 | 0.00 | 0.00 |
| 149 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 |
| 151 | 1.00 | 1.00 |
| 152 | 3.10 | 3.10 |
| 153 | 3.10 | 3.10 |
| 154 | 0.00 | 0.00 |
| 155 | 1.30 | 1.30 |
| 156 | 3.10 | 3.10 |
| 157 | 0.00 | 0.00 |
| 158 | 3.16 | 3.11 |
| 159 | 2.23 | 2.21 |
| 160 | 3.13 | 3.12 |
| 161 | 0.00 | 1.50 |
| 162 | 0.00 | 1.50 |
| 163 | 0.00 | 1.50 |
| 164 | 0.00 | 1.50 |
| 165 | 0.00 | 1.50 |
| 166 | 0.00 | 0.00 |
| 167 | 3.12 | 3.12 |
| 168 | 0.00 | 1.50 |
| 169 | 0.00 | 1.50 |
| 170 | 0.00 | 1.50 |
| 171 | 0.00 | 2.62 |
| 172 | 0.00 | 1.50 |
| 173 | 1.54 | 1.50 |
| 174 | 0.00 | 0.00 |
| 175 | 3.12 | 3.11 |
| 176 | 0.00 | 0.00 |
| 177 | 3.12 | 3.12 |
| 178 | 0.00 | 0.00 |
| 179 | 3.12 | 3.10 |
| 180 | 3.12 | 3.10 |
| 181 | 3.12 | 0.00 |
| 182 | 0.15 | 0.16 |
| 183 | 2.32 | 2.30 |
| 184 | 2.54 | 2.50 |
| 185 | 3.12 | 3.12 |
| 186 | 3.12 | 3.12 |
| 187 | 3.12 | 3.12 |
| 188 | 0.00 | 0.00 |
| 189 | 2.50 | 2.44 |
| 190 | 3.12 | 3.11 |
| 191 | 0.00 | 0.00 |
| 192 | 3.12 | 3.11 |

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| 193 | 3.12 | 3.12 |
| 194 | 3.12 | 3.12 |
| 195 | 3.12 | 3.12 |
| 196 | 1.05 | 3.12 |
| 197 | 0.00 | 1.05 |
| 198 | 0.00 | 0.00 |
| 199 | 1.25 | 1.34 |
| 200 | 2.17 | 2.10 |
| 201 | 1.80 | 1.75 |
| 202 | 0.00 | 1.90 |
| 203 | 1.80 | 1.90 |
| 204 | 3.12 | 3.10 |
| 205 | 0.00 | 0.00 |
| IC302 161621 | | |
| 1 | 3.15 | 3.10 |
| 2 | 0.65 | 1.20 |
| 3 | 0.70 | 1.20 |
| 4 | 0.00 | 0.00 |
| 5 | 0.92 | 1.10 |
| 6 | 0.77 | 1.10 |
| 7 | 3.13 | 3.15 |
| 8 | 0.71 | 0.95 |
| 9 | 0.90 | 1.30 |
| 10 | 0.00 | 0.00 |
| 11 | 0.86 | 0.90 |
| 12 | 1.10 | 1.50 |
| 13 | 3.16 | 3.10 |
| 14 | 0.00 | 0.00 |
| 15 | 2.97 | 2.90 |
| 16 | 1.54 | 1.60 |
| 17 | 2.35 | 2.70 |
| 18 | 3.13 | 3.10 |
| 19 | 1.23 | 1.00 |
| 20 | 0.64 | 0.30 |
| 21 | 0.64 | 0.70 |
| 22 | 1.23 | 1.20 |
| 23 | 1.42 | 1.40 |
| 24 | 0.64 | 0.30 |
| 25 | 3.13 | 3.10 |
| 26 | 0.00 | 0.00 |
| 27 | 1.47 | 1.40 |
| 28 | 1.40 | 1.40 |
| 29 | 3.13 | 3.10 |
| 30 | 0.60 | 1.40 |
| 31 | 0.60 | 0.90 |
| 32 | 0.00 | 0.00 |
| 33 | 0.00 | 0.00 |
| 34 | 3.13 | 3.14 |
| 35 | 0.60 | 0.90 |
| 36 | 0.00 | 0.00 |
| 37 | 0.30 | 0.00 |
| 38 | 3.13 | 3.14 |
| 39 | 0.53 | 1.20 |
| 40 | 0.56 | 1.20 |
| 41 | 0.93 | 0.00 |
| 42 | 0.00 | 0.00 |

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| 39 | 0.53 | 1.20 |
| 40 | 0.56 | 1.20 |
| 41 | 0.93 | 0.00 |
| 42 | 0.00 | 1.20 |
| 43 | 0.59 | 1.10 |
| 44 | 3.14 | 3.14 |
| 45 | 0.92 | 1.40 |
| 46 | 0.84 | 1.50 |
| 47 | 0.00 | 0.00 |
| 48 | 0.87 | 1.40 |
| 49 | 0.77 | 1.10 |
| 50 | 0.00 | 0.00 |
| IC304 7W04FU | | |
| 1 | 2.67 | 2.76 |
| 2 | 2.76 | 2.76 |
| 3 | 2.76 | 2.76 |
| 4 | 0.00 | 0.00 |
| 5 | 2.22 | 2.21 |
| 6 | 2.23 | 2.22 |
| 7 | 2.23 | 2.22 |
| 8 | 5.00 | 4.99 |
| IC305 7W04FU | | |
| 1 | 1.56 | 1.56 |
| 2 | 0.77 | 1.10 |
| 3 | 3.13 | 3.15 |
| 4 | 0.71 | 0.95 |
| 5 | 0.90 | 1.30 |
| 6 | 0.00 | 0.00 |
| 7 | 0.86 | 0.90 |
| 8 | 5.00 | 4.99 |
| AUDIO | | |
| 1 | 1.56 | 1.56 |
| 2 | 2.48 | 2.46 |
| 3 | 2.56 | 2.55 |
| 4 | 0.00 | 0.00 |
| 5 | 2.47 | 2.46 |
| 6 | 2.56 | 2.55 |
| 7 | 2.56 | 2.55 |
| 8 | 5.00 | 4.99 |
| IC305 7W04FU | | |
| 1 | 1.57 | 1.57 |
| 2 | 0.00 | 1.56 |
| 3 | 1.57 | 1.57 |
| 4 | 2.22 | 1.22 |
| 5 | 1.57 | 1.57 |
| 6 | 3.05 | 3.82 |
| 7 | 3.73 | 4.01 |
| 8 | 4.99 | 4.89 |
| 9 | 5.03 | 5.02 |
| 10 | 0.00 | 2.44 |
| 11 | 3.50 | 2.47 |
| 12 | 3.20 | 2.40 |
| 13 | 1.47 | 2.47 |
| 14 | 0.00 | 2.09 |
| 15 | 5.10 | 5.10 |
| 16 | 3.10 | 3.10 |
| 17 | 1.23 | 1.00 |
| 18 | 0.64 | 0.30 |
| 19 | 0.64 | 0.70 |
| 20 | 1.23 | 1.20 |
| 21 | 1.42 | 1.40 |
| 22 | 1.32 | 1.30 |
| 23 | 1.36 | 1.40 |
| 24 | 1.40 | 1.40 |
| 25 | 1.16 | 1.40 |
| 26 | 0.60 | 1.40 |
| 27 | 1.47 | 1.40 |
| 28 | 1.40 | 1.40 |
| 29 | 1.16 | 1.40 |
| 30 | 0.60 | 1.40 |
| 31 | 0.60 | 0.90 |
| 32 | 0.00 | 0.00 |
| 33 | 0.00 | 0.00 |
| 34 | 3.13 | 3.14 |
| 35 | 1.54 | 1.50 |
| 36 | 0.00 | 0.00 |
| 37 | 0.30 | 0.00 |
| 38 | 3.13 | 3.14 |
| 39 | 0.53 | 1.20 |
| 40 | 0.56 | 1.20 |
| 41 | 0.93 | 0.00 |
| 42 | 0.00 | 0.00 |

| MODE PIN NO. | EE | PLAY |
|--------------|-------|--------|
| 39 | 0.53 | 1.20 |
| 40 | 0.56 | 1.20 |
| 41 | 0.93 | 0.00 |
| 42 | 0.00 | 0.00 |
| 43 | 0.59 | 1.10 |
| 44 | 3.14 | 3.14 |
| 45 | 0.92 | 1.40 |
| 46 | 0.84 | 1.50 |
| 47 | 0.00 | 0.00 |
| 48 | 0.87 | 1.40 |
| 49 | 0.77 | 1.10 |
| 50 | 0.00 | 0.00 |
| IC403 | | |
| 1 | 5.03 | 5.03 |
| 2 | 0.00 | 0.00 |
| 3 | 11.84 | 11.85 |
| 4 | 12.78 | 12.69 |
| IC403 | | |
| 1 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 |
| 8 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 |
| 10 | 0.00 | 0.00 |
| 11 | 0.00 | 0.00 |
| 12 | 0.00 | 0.00 |
| 13 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 |
| 15 | 0.00 | 0.00</ |

| MODE PIN NO. | EE | PLAY |
|---------------------|------|------|
| 35 | 4.99 | 4.98 |
| 36 | 4.99 | 4.98 |
| 37 | 0.00 | 0.00 |
| 38 | 0.00 | 4.98 |
| 39 | 2.26 | 1.25 |
| 40 | 2.18 | 2.21 |
| 41 | 1.73 | 1.73 |
| 42 | 2.18 | 2.16 |
| 43 | 1.81 | 1.81 |
| 44 | 4.95 | 4.94 |
| IC505 HC374P | | |
| 1 | 0.00 | 0.00 |
| 2 | 5.03 | 5.02 |
| 3 | 2.26 | 2.13 |
| 4 | 2.20 | 2.40 |
| 5 | 5.03 | 5.01 |
| 6 | 0.00 | 0.00 |
| 7 | 1.75 | 1.88 |
| 8 | 2.19 | 1.90 |
| 9 | 5.02 | 5.01 |
| 10 | 0.00 | 0.00 |
| 11 | 5.00 | 5.00 |
| 12 | 5.00 | 5.01 |
| 13 | 1.80 | 1.76 |
| 14 | 2.20 | 2.10 |
| 15 | 5.00 | 5.00 |
| 16 | 0.00 | 0.00 |
| 17 | 1.30 | 1.34 |
| 18 | 1.00 | 1.10 |
| 19 | 0.00 | 0.00 |
| 20 | 5.00 | 5.00 |
| IC504 24C02N | | |
| 1 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 |
| 5 | 4.99 | 4.97 |
| 6 | 4.98 | 4.97 |
| 7 | 0.00 | 0.00 |
| 8 | 4.99 | 0.00 |
| FRONT | | |
| IC901 78032 | | |
| 1 | 5.00 | 5.01 |
| 2 | 0.00 | 0.00 |
| 3 | 2.77 | 2.52 |
| 4 | 2.86 | 2.86 |
| 5 | 0.70 | 0.00 |
| 6 | 5.00 | 5.00 |
| 7 | 4.98 | 4.96 |
| 8 | 4.93 | 4.92 |
| 9 | 4.94 | 4.95 |
| 10 | 4.97 | 2.89 |
| 11 | 4.97 | 4.97 |
| 12 | 4.97 | 3.00 |
| 13 | 4.97 | 4.96 |

| MODE PIN NO. | EE | PLAY |
|---------------------|--------|--------|
| 14 | 4.97 | 3.30 |
| 15 | 4.86 | 4.90 |
| 16 | 0.00 | 0.00 |
| 17 | 4.80 | 4.81 |
| 18 | 0.00 | 4.31 |
| 19 | 4.78 | 4.76 |
| 20 | 0.00 | 0.00 |
| 21 | 4.96 | 4.98 |
| 22 | 4.97 | 4.98 |
| 23 | 0.00 | 0.00 |
| 24 | 4.99 | 5.00 |
| 25 | 5.00 | 5.00 |
| 26 | 1.18 | 1.14 |
| 27 | 4.11 | 4.12 |
| 28 | 4.96 | 4.96 |
| 29 | 4.96 | 4.97 |
| 30 | 4.97 | 4.96 |
| 31 | 4.96 | 4.97 |
| 32 | 4.97 | 4.97 |
| 33 | 4.96 | 4.96 |
| 34 | 4.96 | 4.97 |
| 35 | 4.96 | 4.97 |
| 36 | 4.97 | 4.97 |
| 37 | 4.97 | 4.96 |
| 38 | 4.96 | 4.96 |
| 39 | 4.77 | 4.97 |
| 40 | 4.80 | 4.80 |
| IC801 BA3308 | | |
| 1 | 1.76 | 1.76 |
| 2 | 0.00 | 0.00 |
| 3 | 1.76 | 1.76 |
| 4 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 |
| 6 | 4.53 | 4.52 |
| 7 | 1.77 | 1.77 |
| 8 | 0.00 | 0.00 |
| 9 | 1.77 | 1.77 |
| IC902 7042P | | |
| 1 | 5.09 | 5.00 |
| 2 | 0.00 | 0.00 |
| 3 | 5.07 | 5.00 |
| J A C K | | |
| 1 | 4.55 | 4.54 |
| 2 | 2.24 | 2.24 |
| 3 | 3.82 | 3.82 |
| 4 | 0.00 | 0.00 |
| 5 | 3.82 | 3.82 |
| 6 | 2.95 | 2.63 |
| 7 | 2.24 | 2.24 |
| 8 | 2.74 | 2.73 |
| 9 | 3.66 | 3.17 |
| 10 | 0.00 | 0.00 |
| 11 | 4.58 | 4.57 |
| 12 | 2.24 | 2.24 |
| 13 | 1.94 | 8.93 |
| 14 | 4.54 | 4.53 |
| 15 | 0.00 | 0.00 |
| 16 | 4.57 | 4.57 |
| 68 | -17.50 | -18.70 |

| Mode Pin No. | Emitter | | Base | | Collector | |
|------------------|---------|-------|-------|-------|-----------|-------|
| | EE | PLAY | EE | PLAY | EE | PLAY |
| S E R V O | | | | | | |
| Q2M1 | 0.00 | 0.00 | 4.98 | 4.98 | 0.00 | 0.00 |
| Q2A1 | 4.67 | 4.69 | 4.97 | 4.01 | 0.96 | 2.20 |
| Q2A2 | 4.97 | 4.93 | 4.96 | 4.93 | 0.00 | 0.50 |
| A U D I O | | | | | | |
| A401 | 5.04 | 5.33 | 4.32 | 5.03 | 4.08 | 0.00 |
| A402 | 5.04 | 5.03 | 5.03 | 4.99 | 0.00 | 0.00 |
| A403 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 5.02 |
| A404 | 0.00 | 0.00 | -0.30 | -0.30 | 0.98 | 0.98 |
| A405 | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 0.72 |
| A406 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.89 |
| A407 | 0.00 | 0.00 | -0.49 | -0.35 | 1.31 | 0.88 |
| J A C K | | | | | | |
| Q601 | 12.74 | 12.67 | 11.97 | 11.89 | 12.73 | 12.65 |
| Q602 | 0.000 | 0.00 | 5.03 | 5.06 | 0.00 | 0.00 |
| Q603 | 0.00 | 0.00 | 0.00 | 0.00 | 12.72 | 12.65 |
| Q604 | 0.00 | 0.00 | 5.04 | 5.03 | 0.00 | 0.00 |
| Q605 | 1.99 | 1.53 | 1.31 | 0.89 | 0.00 | 0.00 |
| Q606 | 1.99 | 1.70 | 1.31 | 1.15 | 0.00 | 0.00 |
| Q607 | 0.00 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 |
| Q608 | 0.00 | 0.00 | 0.77 | -0.70 | 0.00 | 0.00 |
| Q609 | 0.00 | 0.00 | 0.76 | -0.60 | 0.00 | 0.00 |
| Q610 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 |
| Q611 | 0.00 | 0.00 | 0.75 | -0.70 | 0.00 | 0.00 |
| Q612 | 0.00 | 0.00 | 0.76 | -0.90 | 0.00 | 0.00 |
| Q613 | 0.00 | 0.00 | 0.76 | -0.50 | 0.00 | 0.00 |
| Q614 | 0.00 | 0.00 | 0.76 | -0.50 | 0.00 | 0.00 |
| Q615 | 5.09 | 5.09 | 4.29 | 4.92 | 4.96 | -1.00 |
| Q616 | 3.62 | 3.91 | 2.96 | 2.50 | 0.00 | 0.00 |
| Q617 | 1.99 | 1.74 | 1.31 | 1.08 | 0.00 | 0.00 |
| Q618 | 0.00 | 0.00 | 0.76 | -1.20 | 0.00 | 0.00 |
| Q619 | 0.00 | 0.00 | 0.76 | -0.60 | 0.00 | 0.00 |